

AGENDA
PROFESSIONAL EDUCATION COUNCIL
3:30 - Wednesday, October 11, 2017
GRH 3073

- I. Consideration of the minutes from the September 13, 2017 meeting
(Minutes can be found on the CEBS main web page – click on the Dean’s Office dropdown menu, and then on Meetings Minutes and Agendas).

Approval of agenda for this October 11, 2017 PEC meeting

II. New Business

A. College of Education and Behavioral Sciences

Office of Teacher Services

1. Candidates Completing Requirements for Admission to the Professional Education Unit
September 13, 2017 to October 11, 2017
2. Student Teacher Candidates for Spring 2018

Department of Counseling and Student Affairs

1. Program Change Request – 048, Standard Guidance, Rank 1
<https://nextcatalog.wku.edu/programadmin/> (Select Edited Programs from drop down menu on right, find proposal in list)
2. Program Change Request – 112, Counselor Education, Specialist in Education
<https://nextcatalog.wku.edu/programadmin/> (Select Edited Programs from drop down menu on right, find proposal in list)
3. Program Change Request – 159, Certification Only, Counseling
<https://nextcatalog.wku.edu/programadmin/> (Select Edited Programs from drop down menu on right, find proposal in list)

B. Ogden College of Science & Engineering

1. Proposal to Revise a Course Prerequisite – AGRI 291, Introduction to Data Analysis and Interpretation
2. Proposal to Revise a Course Prerequisite - AGRI 491, Data Analysis and Interpretation
3. Proposal to Revise a Course Prerequisite/Corequisites - MATH 307, Introduction to Linear Algebra
4. Proposal to Revise a Course Prerequisite/Corequisites - MATH 405, Numerical Analysis
5. Proposal to Revise a Course Prerequisite/Corequisites - MATH 421, Problem Solving for Secondary Teachers
6. Proposal to Revise a Course Prerequisite/Corequisites - MATH 423, Geometry II
7. Proposal to Make Multiple Revisions to a Course - CHEM 470, Chemistry/Middle School
8. Proposal to Revise a Program - Ref. 623, Major in Chemistry

III. Other Business

A.

Candidates Completing Requirements for Admission to Professional Education Unit

September 13, 2017 – October 11, 2017

ELEMENTARY

Vuleta, Emily		ELED	
McIntosh, Valerie		ELED	
Patterson, Ashley		SPED/ELED	
Willoughby, Samantha		SPED/ELED	
Radford, Shelby		ELED	

MIDDLE GRADES

Huff, Caitlyn		Math	

5-12

P-12

Suttle, Nicholas		Physical Education/Health	
Smith, Emerald		Health	
Matney, Michael		MSD	

SECONDARY

Lightfoot, Nicole		Spanish	
Gamblin, Alexis		Spanish	
Holt, Delaney		English	
Huff, Caitlyn		Math	

IECE

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GRADUATE

Meng, Xiuli		Secondary Chinese	
Montgomery, Shelby		Psychology	
Cartmill, Nancy		SPED	

ENDORSEMENT

Lightfoot, Nicole		TESL	
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If there are any questions or concerns about the status of any candidate, the person with the question or concern should contact Dr. Sam Evans, Teacher Services (745-4664 or sam.evans@wku.edu) prior to the PEC meeting.

**STUDENT TEACHER CANDIDATES FOR SPRING 2018
QUALIFIED**

*****STUDENT TEACHING APPLICATION ACCEPTED*** 10/11/2017**

FIRST	LAST	MAJOR
ELIZABETH	PAGE	ELED

**STUDENT TEACHER CANDIDATES FOR SPRING 2018
NOT QUALIFIED**
(THESE STUDENTS HAVE S.T. REQUIREMENTS IN PROCESS)

FIRST	LAST	MAJOR	DEFICIENCY
JAMES	EDINGTON	AGED	CA;LTCY;FH
EMILEE	GRAVES	AGED	CA;X;LTCY;FH
THOMAS	POOLE	AGED	LTCY(FA17);FH
MATTHEW	SCOTT	AGED	CA;LTCY;FH
WILLIAM	BANKS	ART	CA;LTCY;FH
MAKAYLA	CLEARY	ART	CA;LTCY;FH
ASHLEY	LONG (WITT)	ART	CA;LTCY;FH
HARLIE	PHELPS	ART	CA;LTCY;FH
JAMES	ANDERSON	BIOLOGY	LTCY(FA 17);FH
TAYLOR	ADAMS	ELED	FH
EMILY	ALEXANDER	ELED	FH
MORGAN	BENNETT	ELED	FH
MACKENZIE	BIRKEY	ELED	FH
LUKE	BOOTY	ELED	FH
AUSTIN	BROWN	ELED	FH
KAITLYN	BURKS	ELED	FH
MIRANDA	CECIL	ELED	FH
TRISTA	CHILDRESS	ELED	FH
KASEY	COKE-MURPHY	ELED	FH
AUDREY	COOMES	ELED	FH
KYLIE	COOPER	ELED	FH
CAITLIN	CRAWFORD	ELED	FH
CAROLYN	CROWE	ELED	FH
CATHERINE	CUMMINGS	ELED	FH
LACI	DAVIS	ELED	FH
MEGHAN	DILLON	ELED	FH
MICHAELA	DREW	ELED	FH
ERIKA	EVANS	ELED	FH
EMILY	GANI	ELED	FH
MADISON	GILBERT	ELED	FH
CHELSEY	GRAY	ELED	FH
MADELINE	HAAS	ELED	FH

JODI	HAGAN	ELED	FH
LOGEN	HARRIS	ELED	FH
KATELYNN	HAYES	ELED	FH
CHELSEY	HENDRICK	ELED	FH
TAYLOR	HOWE	ELED	FH
KAYLA	JAGGERS	ELED	FH
HANNAH	JENKINS	ELED	FH
KELSEY	JERNIGAN	ELED	FH
EMILY	JOHNSON	ELED	FH
ELIZABETH	KINDMA	ELED	X;FH
KALLI	LYON	ELED	FH
KAREN	MAHONEY	ELED	CA;FH
MOLLY	MAYER	ELED	FH
LEXI	MAYFIELD (AUD)	ELED	FH
MACKENZIE	MAYO	ELED	FH
KATELYN	MCCOY	ELED	FH
CHEYENNE	MCDUGAL	ELED	FH
MEGAN	MEEK	ELED	FH
ELIZABETH	MEREDITH	ELED	FH
SAMANTHA	MILLER	ELED	FH
KAITLIN	MORRIS (WELLS)	ELED	FH
SARAH	MOODY	ELED	FH
SARA	MOWEN	ELED	P;FH
SHELBY	NEAL	ELED	X;P;FH
HALEY	O'KANE	ELED	FH
CATRINA	PENDLETON	ELED	P;FH
EMILY	PERRONE	ELED	FH
ASHLEY	PITCHFORD	ELED	FH
MEGHAN	RHOADS	ELED	FH
TAYLOR	ROBINSON	ELED	FH
ELEANOR	ROSE	ELED	FH
TIFFANY	RUSSELL	ELED	FH
ALEXANDRA	SCHWAB	ELED	X;FH
HANNAH	SIMS	ELED	FH
KATHARINE	STEPHENS	ELED	FH
JULIE	STIVERS	ELED	FH
JOHANNA	THOMAS	ELED	FH
LESLIE	TURNER	ELED	FH
KENLYN	TUROWSKI	ELED	FH
MORGAN	ULLERY	ELED	FH
MIKAYLA	UPCHURCH	ELED	FH
MIRANDA	URBAN	ELED	FH
EMILY	VULETA	ELED	CA;FH

MEGAN	WARD	ELED	FH
BLAIR	WARREN	ELED	FH
MOLLY	WEAR	ELED	FH
SAMANTHA	WEICK	ELED	FH
HALEY	WERNER	ELED	FH
CHANEY	WILLIAMS	ELED	FH
DESTINY	WOLF (RHODES)	ELED	FH
HANNAH	CONLEY	ENGLISH	LTCY(FA17); FH
DANIELLE	DAILEY	ENGLISH	LTCY(FA17);FH
MORGAN	MARTIN	ENGLISH	FH
RACHEL	MCFALL	ENGLISH	LTCY(FA17);FH
TRISTAN	PUCKETT	ENGLISH	LTCY(FA17);FH
KELSEY	TOWE	ENGLISH	LTCY(FA17);FH
EMILY	GRAVETTE	ENG/S.STUDIES	LTCY(FA17);FH
TAYLOR	BACK	FCS	LTCY(FA17);FH
TAYLOR	STEWART	FCS	LTCY(FA17);FH
SARAH	TANNER	FCS	LTCY(FA17);FH
SYDNEY	COLLIER	IECE	FH
AMBER	HARRIS	IECE	CA;X;FH
KASIE	MASON	IECE	CA;FH
LEAH	SHARTZER	MATH	FH
CORY	YEOMANS	MATH	LTCY(FA17);FH
KENEDI	DRUMHELLER	MGE: LA	X;FH
FAITH	ALEXANDER (WHITE)	MGE/MATH	FH
SARAH	ANGELLE	MGE/MATH	FH
BROOKE	BRAMER	MGE/MATH	FH
CAITLYN	HUFF	MGE/MATH	CA;LTCY;FH
RACHEL	JONES	MGE/MATH	LTCY(FA 17);FH
MOLLY	KENNEDY	MGE/MATH	FH
HALEY	MACGEORGE	MGE/MATH	LTCY(FA17);X;FH
MACKENZIE	MILLER	MGE/MATH	LTCY(FA17);FH
AUTUMN	MINK (BRYAN)	MGE/MATH	FH
HANNAH	ROBERTSON	MGE/MATH	FH
MATTHEW	SNELL	MGE/MATH	LTCY(FA17());FH
MEGAN	WOLFE	MGE/MATH	CA;LTCY(FA17);FH
MARY	LACY	MGE&SEC/MATH	LTCY(FA17);FH
JARED	THOMPSON	MGE&SEC/MATH	LTCY (FA17);FH
KAYLA	HELMS	MGE/SCIENCE	LTCY(FA17);FH
PAIGE	PETERSON	MGE/SCIENCE	CA;X;LTCY;FH
RICK	WALLS	MGE/SCIENCE	LTCY(FA17)
MADELINE	PRATHER	MGE/SOC.STUDIES	X;LTCY (FA17);FH
AMBER	ROBINSON	MGE/SOC.STUDIES	X,LTCY(FA17);FH
DANIEL	RUANTO	MGE/SOC.STUDIES	LTCY (FA17);FH

NADINE	BONET (EDGELL)	MGE: SS/LA	X;LTCY421(FA17);FH
PRISTINA	DAVIS	MGE:SS/LA	FH
KEELY	HAHN (HAMILTON)	MGE: SS/LA	LTCY(FA17);FH
HILLARY	HOBGOOD (GARRETT)	MGE:SS/LA	X;FH
AMANDA	JOSEPH (WEBB)	MGE: SS/LA	X;LTCY421(FA17);FH
KRISTA	SIMON	MGE: SS/LA	LTCY(FA17);FH
AMELIA	TARRENCE	MGE: SS/LA	LTCY(FA17);FH
SARAH	THURMAN	MGE: SS/LA	LTCY(FA17);FH
JAMES	WARREN	MGE: SS/LA	CA;X;LTCY421;FH
ADAM	CARBONE	MUSIC	LTCY(FA17);FH
BENJAMIN	CARROLL	MUSIC	X;LTCY;FH
TABITHA	CONLEY	MUSIC	LTCY(FA17);FH
JESSICA	COY	MUSIC	LTCY(FA17);FH
ABIGAIL	CURTIS	MUSIC	LTCY(FA17);FH
BRANDON	GOODWIN	MUSIC	LTCY;FH
CHEYANNE	HART	MUSIC	LTCY(FA17);FH
ELIZABETH	HOOK	MUSIC	X;LTCY(FA17);FH
MADELINE	HUGHES	MUSIC	LTCY(FA17);FH
RYAN	JONES	MUSIC	LTCY(FA17);FH
KELSI	KERNEY	MUSIC	LTCY(FA17);FH
EMMA	KING	MUSIC	LTCY(FA17);FH
AMBER	LAMASTUS	MUSIC	X;LTCY(FA17);FH
KELLY	MCMICHAEL	MUSIC	X;LTCY(FA17);FH
JOSHUA	MITCHELL	MUSIC	X;LTCY(FA17); FH
KATELYN	VOGEL	MUSIC	X;LTCY(FA17);FH
LAUREN	WITTY	MUSIC	X;LTCY(FA17);FH
ALEXA	FUQUA	PE	LTCY(FA17);FH
EMERALD	SMITH	PE/HEALTH	X;LTCY(FA17);FH
CODY	SPALDING	PE	LTCY(FA17);FH
NICHOLAS	SUTTLE	PE/HEALTH	LTCY;FH
RYNE	TINSLEY	PE/HEALTH	FH
TREY	TINSLEY	PE/HEALTH	FH
TERRENCE	WILLIAMS	PE/HEALTH	LTCY(FA 17);FH
SETH	BURCHETT	S.STUDIES	LTCY (FA17);FH
ADAM	HALL	S.STUDIES	LTCY(FA17); FH
MICAH	HAYES	S.STUDIES	FH
JUSTIN	SPEARS	S.STUDIES	CA
MICHAEL	THOMPSON	S.STUDIES	LTCY (FA17);FH
ADAM	WILKINS	S.STUDIES	LTCY(FA17); FH
ERIN	JACKSON	SPANISH	LTCY(FA17);FH

SARAH	REDMON	SPANISH	LTCY; FH
CHARLEY	ALLEN	SPED/ELED	FH
BROOKE	BORDERS	SPED/ELED	FH
CORRINE	CHILES	SPED/ELED	FH
CASEY	GARRETT	SPED/ELED	FH
PEYTON	HUGHES	SPED/ELED	FH
CALEB	LONGACRE	SPED/ELED	FH
MADISON	LOY	SPED/ELED	FH
DEMI	OLDHAM	SPED/ELED	FH
MIKAYLA	SANDERS	SPED/ELED	FH
AMANDA	SCHAEFER	SPED/ELED	FH
MACKENZIE	SCHULTZ	SPED/ELED	FH
HEATHER	STEPHENS	SPED/ELED	FH
KATHERINE	TOLLIVER	SPED/ELED	FH
MARY	WILK	SPED/ELED	FH
LINZIE	WILSON	SPED/ELED	FH
KAITLIN	WOODROW	SPED/ELED	FH
EMILY	BURNETT	SPED:LBD/MSD	FH
BRITTANY	HALL	SPED:LBD/MSD	FH
MICHAEL	MATNEY	SPED:LBD/MSD	CA;FH
CASSIDY	MCCORD	SPED:LBD/MSD	FH
MACKENZIE	PERDUE	SPED:LBD/MSD	FH
NICOLE	STEPHENS	SPED:LBD/MSD	FH

CA = Not Admitted into Teacher Education

D = Disposition Score Deficiency Pending

LTCY = Has not taken LTCY 421

P = Repeating required coursework

X = Deficient GPA and/or other Student Teaching Requirement Deficiency

FH = Missing field observation hours

STUDENT TEACHER CANDIDATES FOR SPRING 2018

*****APPLICATION WITHDRAWN**

FIRST	LAST	MAJOR
SYDNEY	LAWSON	MGE: SS/LA
KATHRYN	LASLIE	BIOLOGY
EZEKIEL	WOODCOCK	MGE/MATH

**Ogden College of Science and Engineering
Department of Agriculture
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Todd Willian, todd.willian@wku.edu, 745-5969

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: AGRI 291
 - 1.2 Course title: Introduction to Data Analysis and Interpretation
- 2. Current prerequisites/corequisites/special requirements:** Prerequisite: Six hours of natural and/or social science and MATH 116.
- 3. Proposed prerequisites/corequisites/special requirements:** Prerequisite: MATH 115 or MATH 116.
- 4. Rationale for the revision of prerequisites/corequisites/special requirements:** Requisite mathematics skills necessary for this course are covered in either MATH 115 or MATH 116.
- 5. Effect on completion of major/minor sequence:** N/A
- 6. Proposed term for implementation:** First available
- 7. Dates of prior committee approvals:**

Department of Agriculture	September 14, 2017
Ogden College Curriculum Committee	October 3, 2017
Professional Education Council	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

**Ogden College of Science and Engineering
Department of Agriculture
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Stephen King, stephen.king2@wku.edu, 745-5964

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: AGRI 491
 - 1.2 Course title: Data Analysis and Interpretation
- 2. Current prerequisites/corequisites/special requirements:** Prerequisites: AGRI 291 or MATH 116, senior standing, and 3.0 cumulative GPA.
- 3. Proposed prerequisites/corequisites/special requirements:** Prerequisite: MATH 115 or higher and junior standing.
- 4. Rationale for the revision of prerequisites/corequisites/special requirements:** Requisite mathematics skills necessary for this course are covered in MATH 115 or higher level course. Agriculture students are now required to take either AGRI 291 or AGRI 491; therefore, AGRI 291 as a pre-requisite for AGRI 491 is no longer applicable.
- 5. Effect on completion of major/minor sequence:** N/A
- 6. Proposed term for implementation:** First Available
- 7. Dates of prior committee approvals:**

Department of Agriculture

September 14, 2017

Ogden College Curriculum Committee

October 3, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science and Engineering
Department of Mathematics
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Tom Richmond, tom.richmond@wku.edu 270-745-6219

1. Identification of course:

- 1.1 Course prefix (subject area) and number: MATH 307
- 1.2 Course title: Introduction to Linear Algebra
- 1.3 Credit hours: 3.0

2. Current prerequisites/corequisites/special requirements:

MATH 137 with a grade of "C" or better or MATH 136 with a grade of "A" or MATH 142 with a grade of "A".

3. Proposed prerequisites/corequisites/special requirements:

MATH 137 with a grade of "C" or better or MATH 136 with a grade of "A" or MATH 142 with a grade of "A" or both MATH 136 and CS 221 with grades of "C" or better.

4. Rationale for the revision of prerequisites/corequisites/special requirements:

This change is in response to a request from the Computer Science faculty. It will allow their students who may not need MATH 137 to take MATH 307, which is more applicable to their discipline.

5. Effect on completion of major/minor sequence: There is no effect on completion of major/minor sequence

6. Proposed term for implementation: Spring 2018

7. Dates of prior committee approvals:

Department of Mathematics

August 16, 2017

Ogden College Curriculum Committee

September 7, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science and Engineering
Department of Mathematics
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Tom Richmond, tom.richmond@wku.edu 270-745-6219

1. Identification of course:

- 1.1 Course prefix (subject area) and number: MATH 405
- 1.2 Course title: Numerical Analysis I
- 1.3 Credit hours: 3.0

2. Current prerequisites/corequisites/special requirements:

MATH 237 or 307 or 310, and CS 180 or CS 146 all with grades of C or better.

3. Proposed prerequisites/corequisites/special requirements:

MATH 137, and MATH 237 or MATH 307 or MATH 310, and CS 180 or CS 146, all with grades of "C" or better.

4. Rationale for the revision of prerequisites/corequisites/special requirements:

An accompanying proposal will eliminate MATH 137 as a required prerequisite for MATH 307.

This could potentially allow a student to enter MATH 405 without having MATH 137. The proposed revision will rectify this.

5. Effect on completion of major/minor sequence:

There is no effect on completion of major/minor sequence

6. Proposed term for implementation: Spring 2018

7. Dates of prior committee approvals:

Department of Mathematics

August 16, 2017

Ogden Curriculum Committee

September 7, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science and Engineering
Department of Mathematics
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Tom Richmond, tom.richmond@wku.edu 270-745-6219

1. Identification of course:

- 1.1 Course prefix (subject area) and number: MATH 421
- 1.2 Course title: Problem Solving for Secondary Teachers
- 1.3 Credit hours: 3.0

2. Current prerequisites/corequisites/special requirements:

MATH 307 or 310 with a grade of "C" or better or permission of the instructor.

3. Proposed prerequisites/corequisites/special requirements:

MATH 137 and MATH 307 or MATH 310 with grades of "C" or better or permission of the instructor.

4. Rationale for the revision of prerequisites/corequisites/special requirements:

An accompanying proposal will eliminate MATH 137 as a required prerequisite for MATH 307.

This could indirectly allow a student to enter MATH 421 without having MATH 137. The proposed revision will rectify this.

5. Effect on completion of major/minor sequence:

There is no effect on completion of major/minor sequence

6. Proposed term for implementation: Spring 2018

7. Dates of prior committee approvals:

Department of Mathematics

August 16, 2017

Ogden Curriculum Committee

September 7, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science and Engineering
Department of Mathematics
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)**

Contact Person: Tom Richmond, tom.richmond@wku.edu 270-745-6219

1. Identification of course:

- 1.1 Course prefix (subject area) and number: MATH 423
- 1.2 Course title: Geometry II
- 1.3 Credit hours: 3.0

2. Current prerequisites/corequisites/special requirements:

MATH 323 with a grade of "C" or better or permission of the instructor.

3. Proposed prerequisites/corequisites/special requirements:

MATH 137 and MATH 323 with grades of "C" or better or permission of the instructor.

4. Rationale for the revision of prerequisites/corequisites/special requirements:

An accompanying proposal will eliminate MATH 137 as a required prerequisite for MATH 307.

This could indirectly allow a student to enter MATH 423 without having MATH 137. The proposed revision will rectify this.

5. Effect on completion of major/minor sequence:

There is no effect on completion of major/minor sequence

6. Proposed term for implementation: Spring 2018

7. Dates of prior committee approvals:

Department of Mathematics

August 16, 2017

Ogden Curriculum Committee

September 7, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science & Engineering
Department of Chemistry
Proposal to Make Multiple Revisions to a Course
(Action Item)**

Contact Person: L.L. Pesterfield, lester.pestterfield@wku.edu, 5-3603

- 1. Identification of course:**
 - 1.1 CHEM 470
 - 1.2 Chemistry / Middle School
- 2. Revise course title:** NA
- 3. Revise course number:** NA
- 4. Revise course prerequisites/corequisites/special requirements:**
 - 4.1 Current prerequisites: None
 - 4.2 Proposed prerequisites: CHEM 105 or 120
 - 4.3 Rationale for revision of course prerequisites: For the course content to be covered at an appropriate level, students must have background knowledge of the fundamental concepts in chemistry. The course is not an introductory course but builds on previous content knowledge.
 - 4.4 Effect on completion of major/minor sequence: None
- 5. Revise course catalog listing:**
 - 5.1 Current catalog listing: Chemical theories and principles in the middle school science curricula (elective credit only).
 - 5.2 Proposed course catalog listing: A study of the atomic and electronic structure of atoms, bonding theories, types of chemical reactions, intermolecular forces and the structure of solids as related to the middle school science curriculum. The course may not be used to fulfill the requirements for a chemistry major or minor.
 - 5.3 Rationale for revision of course catalog listing: The current catalog listing lacks sufficient detail to give the reader an understanding of the content of the course. Additionally, the “elective credit only” statement is misleading for Middle School Science Program majors.
- 6. Revise course credit hours:**
 - 6.1 Current course credit hours: 2-4
 - 6.2 Proposed course credit hours: 3
 - 6.3 Rationale for revision of course credit hours: Historically the course has only been offered as 3 credit hours. Additionally the course is part of the Middle School Science Program which requires the course to be offered as 3 credit hours.
- 7. Revise grade type:** NA

8. Proposed term for implementation: Fall 2018

9. Dates of prior committee approvals:

Department of Chemistry

September 1, 2017

Ogden College Curriculum Committee

October 3, 2017

Professional Education Council

Undergraduate Curriculum Committee

University Senate

**Ogden College of Science & Engineering
Department of Chemistry
Proposal to Revise A Program
(Action Item)**

Contact Person: Jeremy B. Maddox, jeremy.maddox@wku.edu, 5-8725

1. Identification of program:

- 1.1 Current program reference number: 623
- 1.2 Current program title: Major in Chemistry
- 1.3 Credit hours: 30-53

2. Identification of the proposed program changes:

- 2.1 The General Chemistry Major Concentration is revised to add a restriction that students must complete a second major. The previous requirement was that a minor or second major must be completed.
- 2.2 The General Chemistry Major Concentration is revised to require both CHEM 340/341 and CHEM 342/343 and eliminates a 2-hour unspecified CHEM elective. This increases the number of CHEM credit hours for the concentration from 30 to 33, which will also be the new minimum number of CHEM credit hours required for a chemistry degree.
- 2.3 The General Chemistry Major Concentration is revised to require MATH 136 and either PHYS 255/256 or PHYS 231/232 as support courses.
- 2.4 A new concentration, the Foundations Chemistry Major, is proposed and will require either a minor or a second major. The number of required CHEM credit hours for the proposed concentration is 37 with additional requirements of MATH 136 and either PHYS 255/256 or PHYS 231/232 as support courses.

3. Detailed program description:

Current Program	Proposed Program
The major in chemistry requires a minimum of 30 semester hours and leads to the Bachelor of Science degree.	The major in chemistry requires a minimum of 30 33 semester hours and leads to the Bachelor of Science degree.
A second major or minor or the ACS-certified concentration is also required. The department offers three concentrations that lead to a Bachelor of Science degree in chemistry. The most common are a Chemistry major with American Chemical Society (ACS) certification and a standard major in Chemistry, typically for pre-professional and/or double majors.	A second major or minor or the ACS-certified concentration is also required. The department offers three four concentrations that lead to a Bachelor of Science degree in chemistry. The most common are a Chemistry major with American Chemical Society (ACS) certification and a standard general major in Chemistry, typically for pre-

	professional and/or double majors students with a double major.
<i>ACS Certified Chemistry Major Concentration</i>	<i>ACS Certified Chemistry Major Concentration</i>
CHEM course requirements (53 hours):	CHEM course requirements (53 hours):
CHEM 120/121 (5)	CHEM 120/121 (5)
CHEM 222/223 (5)	CHEM 222/223 (5)
CHEM 320 (3)	CHEM 320 (3)
CHEM 330 (5)	CHEM 330 (5)
CHEM 340/341 (5)	CHEM 340/341 (5)
CHEM 342/343 (5)	CHEM 342/343 (5)
CHEM 398 (1)	CHEM 398 (1)
CHEM 399 (2)	CHEM 399 (2)
CHEM 420 (3)	CHEM 420 (3)
CHEM 421 (1)	CHEM 421 (1)
CHEM 446 (3)	CHEM 446 (3)
CHEM 435 (3)	CHEM 435 (3)
CHEM 436 (2)	CHEM 436 (2)
CHEM 450/451 (5)	CHEM 450/451 (5)
CHEM 452/453 (5)	CHEM 452/453 (5)
Cognate course requirements (16-18 hours):	Cognate course requirements (16-18 hours):
MATH 136 (4)	MATH 136 (4)
MATH 137 (4)	MATH 137 (4)
PHYS 231/232 (4) or 255/256 (5)	PHYS 231/232 (4) or 255/256 (5)
PHYS 332/233 (4) or 265/266 (5)	PHYS 332/233 (4) or 265/266 (5)
<i>General Chemistry Major Concentration</i>	<i>General Chemistry Major Concentration</i>
	A second major is required for this concentration.
CHEM course requirements (30 hours):	CHEM course requirements (30 33 hours):
CHEM 120/121 (5)	CHEM 120/121 (5)
CHEM 222/223 (5)	CHEM 222/223 (5)
CHEM 330 (5)	CHEM 330 (5)
CHEM 314 or 340/341 (5)	CHEM 314 or 340/341 (5)
	CHEM 342/343 (5)
CHEM 320 or 446 (3)	CHEM 320 or 446 (3)
CHEM 412 or 450/451 (5)	CHEM 412 or 450/451 (5)
CHEM 300+ (2)	CHEM 300+ (2)
	Cognate course requirements (8-9 hours):
	MATH 136 (4)

	<p>PHYS 231/232 (4) or 255/256 (5)</p> <p><i>Foundations Chemistry Major Concentration</i></p> <p>A minor or second major is required for this concentration.</p> <p>CHEM course requirements (37 hours): CHEM 120/121 (5) CHEM 222/223 (5) CHEM 320 (3) CHEM 330 (5) CHEM 340/341 (5) CHEM 342/343 (5) CHEM 398 (1) CHEM 446 (3) CHEM 412 or 450/451 (5)</p> <p>Cognate course requirements (8-9 hours): MATH 136 (4) PHYS 231/232 (4) or 255/256 (5)</p>
<p><i>Chemistry Major with Teacher Certification Concentration</i></p> <p>Students interested in teaching chemistry must declare a second major in Science and Mathematics Education (SMED) available through the College of Education and Behavioral Sciences.</p> <p>CHEM course requirements (35 hours):</p> <p>CHEM 120/121 (5) CHEM 222/223 (5) CHEM 314 (5) CHEM 320 (3) CHEM 330 (5) CHEM 399 (2) CHEM 412 (5) CHEM 446/447 (5)</p> <p>Cognate course requirements (16 hours):</p> <p>MATH 136 (4) PHYS 231/232 (4) PHYS 332/233 (4) GEOL 111/113 (4)</p>	<p><i>Chemistry Major with Teacher Certification Concentration</i></p> <p>Students interested in teaching chemistry must declare a second major in Science and Mathematics Education (SMED) available through the College of Education and Behavioral Sciences.</p> <p>CHEM course requirements (35 hours):</p> <p>CHEM 120/121 (5) CHEM 222/223 (5) CHEM 314 (5) CHEM 320 (3) CHEM 330 (5) CHEM 399 (2) CHEM 412 (5) CHEM 446/447 (5)</p> <p>Cognate course requirements (16 hours):</p> <p>MATH 136 (4) PHYS 231/232 (4) PHYS 332/233 (4) GEOL 111/113 (4)</p>

<p><i>Chemistry Major with Teacher Certification Concentration (continued)</i></p> <p>SMED course requirements (37 hours):</p> <p>SMED 101 (1-1.5) SMED 102 (2-3) SMED 310 (3) SMED 320 (3) SMED 340 (3) SMED 360 (3) SMED 470 (3) SMED 489 (3) SPED 330 (3) SEC 490 (5-10) LTCY 421 (3)</p>	<p><i>Chemistry Major with Teacher Certification Concentration (continued)</i></p> <p>SMED course requirements (37 hours):</p> <p>SMED 101 (1-1.5) SMED 102 (2-3) SMED 310 (3) SMED 320 (3) SMED 340 (3) SMED 360 (3) SMED 470 (3) SMED 489 (3) SPED 330 (3) SEC 490 (5-10) LTCY 421 (3)</p>
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4. **Rationale for the proposed program change:**

The Department of Chemistry has recently undertaken a comprehensive review of its curriculum relative to a set of 15 internally selected benchmark institutions. After careful consideration of many different factors, the Department has proposed the revisions listed above to the *General Chemistry Major* concentration and also proposed the creation of a new *Foundations Chemistry Major* concentration. The revised course requirements will provide a more comprehensive and rigorous program of study for all Chemistry majors. Specifically, the requirement that chemistry majors take two semesters of organic chemistry and support courses in calculus and physics are basically standard across the institutions examined in the Department's benchmark study. The proposed revisions will make the WKU Chemistry curriculum consistent with these standards, as well as internally consistent with course revisions approved in the previous academic year, e.g., calculus and physics are now prerequisites for the physical chemistry coursework that all chemistry majors are required to take. The proposed revisions will also provide the Department with flexibility to accommodate a wide range of students with varying academic and career objectives. Each of the four chemistry major concentrations is designed to meet the particular needs and pre-professional requirements for a specific sub-populations of chemistry majors. The ACS-certified concentration primarily serves students wanting to pursue graduate studies in Chemistry or to enter the workforce as a chemist. The *Teacher Certification* concentration serves future high school chemistry teachers. The *General Chemistry Major* concentration (with the proposed requirement of a second major) is most appropriate for students whose career path requires a strong background in chemistry, but are not planning to be practicing chemists. The proposed *Foundations Chemistry Major* (with the requirement of a minor or second major) will serve students whose primary undergraduate focus is chemistry and that require a very

strong formal background in all five of the traditional sub-disciplines within chemistry (analytical, biochemistry, inorganic, organic, and physical).

5. Proposed term for implementation and special provisions (if applicable): First available

6. Dates of prior committee approvals:

Department of Chemistry	<u>September 1, 2017</u>
Ogden College Curriculum Committee	<u>October 3, 2017</u>
Professional Education Council	_____
Undergraduate Curriculum Committee	_____
University Senate	_____