



Graduate Council

**Agenda—January 21, 2015
Special Meeting Time – 2:00
Academic Affairs Conference RM 239**

- I. Call to Order
- II. Consideration of December 10, 2015 minutes
- III. Committee Reports
 - a. Curriculum Committee: Report included, Discussion
 - b. Student Research Grants Committee: No report included, Discussion
 - c. Policy Committee: Report included, No report included, Discussion
- IV. Report from Dean of the Graduate School
- V. Public Comments
- VI. Announcements & Adjourn

Graduate Council Program and Curriculum Committee (GCC)

Report to the Graduate Council

Date: January 12, 2016

From: Marge Maxwell, Chair, Program and Curriculum Committee

Consent Agenda Report. The GCC submits the following consent items from its January 12, 2016 meeting for approval by the Graduate Council.

1. Create a New Course

BDAS 500, The Science of Fermenting in Brewing and Distilling
BDAS 595, Internship in Brewing/Distilling

2. Revise Course

CHEM 412G, Introduction to Physical Chemistry
CHEM 420G, Inorganic Chemistry
CHEM 425G, Polymer Chemistry
CHEM 435G, Instrumental Analysis
CHEM 440G, Introduction to Synthetic Organic Methodology
CHEM 470G, Chemistry/Middle School
CHEM 476G, Advanced Laboratory Investigations in Chemistry
CHEM 490G, Materials Chemistry
CHEM 491G, Materials Chemistry Laboratory
CHEM 520, Advanced Inorganic Chemistry
CHEM 531, Advanced Analytical Chemistry
CHEM 541, Advanced Organic Chemistry
CHEM 550, Advanced Physical Chemistry
CHEM 570, Lecture Demonstration Techniques
CHEM 590, Material Chemistry
CHEM 591, Material Chemistry Laboratory
GWS 590, Directed Study in Women's and Gender Studies
SRSC 579, Independent Study in Social Responsibility and Sustainable Communities
NURS 503 Advanced Health Assessment
NURS 504 Theoretical Foundations of Professional Nursing
NURS 508 Advanced Issues in Professional Nursing
NURS 509 Practice Management for Advanced Practice Nurses
NURS 522 Teaching in Schools of Nursing Internship
NURS 605 Leadership in Nursing Practice
NURS 606 Advanced Clinical Practice

3. Revise Program –

1723: Certificate in Organizational Leadership
1712: Certificate in Gender & Women's Studies
0448: M.A. in Social Responsibility & Sustainable Communities
0427 Environmental Health and Safety
0011 Doctor of Nursing Practice

4. New Certificate Program
Brewing and Distilling Arts & Sciences

Information Item Report. The GCC submits the following information items to the Graduate Council:

- I. The GCC membership, as of the January 12, 2016 meeting, includes:
 - Dr. Marge Maxwell, Chair (CEBS) Email: marge.maxwell@wku.edu
 - Dr. Kirk Atkinson, (GFCEB) - Email: kirk.atkinson@wku.edu
 - Ron Mitchell for Dr. Andrew Rosa, (UC) - Email: andrew.rosa@wku.edu
 - Dr. Chris Groves, (OCSE) - Email: chris.groves@wku.edu
 - Dr. Andrea Paganelli for Dr. Beth Plummer, (PCAL) - Email: beth.plummer@wku.edu

- II. Please remind all college representatives to use the provided WORD DOCX format forms on the web site (www.wku.edu/gcc) and not old forms from previous proposals or PDF's.

Ogden College of Science and Engineering

Potter College of Arts & Letters

Department: Deans' Offices

Proposal to Create a New Course

(Action Item)

Contact Person: Rodney King, rodney.king@wku.edu, 5-6910
Cathleen Webb, cathleen.webb@wku.edu, 5-6181
Andrew McMichael, andrew.mcmichael@wku.edu, 5-6538

1. Proposed course:

- 1.1 Course prefix (subject area) and number: BDAS 500
- 1.2 Course title: The Science of Fermentation in Brewing and Distilling
- 1.3 Abbreviated course title: Fermentation Science
(maximum of 30 characters or spaces)
- 1.4 Credit hours: 3
- 1.5 Variable credit (yes or no): No
- 1.6 Repeatable: no
- 1.7 Grade type: Standard Letter Grade
- 1.8 Prerequisites: Graduate Status
- 1.9 Corequisites: None
- 1.10 Course description: Introduction to the basic scientific principles that govern the fermentation process, with particular application to brewing and distilling.
- 1.11 Course equivalency: None

2. Rationale:

- 2.1 Reason for developing the proposed course:
The science of zymology is foundational to the understanding of biology and chemistry. It also forms the basis for industries as diverse as brewing and distilling, fuel production, food manufacturing, and the manufacture of chemical and biological weapons. Students who wish to understand a wide range of applications for biology and chemistry must understand the principles of fermentation.

Currently, several courses in the Departments of Chemistry and Biology cover some of the basic principles of fermentation. These include BIOL 226/227, which examines morphological, cultural, and biochemical characteristics of important groups of bacteria. BIO/CHEM 446, BIO/CHEM 447, BIO/CHEM 467 address biochemical compounds and their role in intermediary metabolism (including fermentation), enzyme activity and energetics.

However, none of these classes focus specifically on the principles of fermentation. The creation of this class will provide students with a focused, intensive study of fermentation, which will better prepare them for other courses in their fields. The particular focus here is on the brewing and distilling industries, which are a fast-growing segment of the economy of Kentucky and the United States. This course will therefore also give students a focused study in an area critical to workforce development.

This course will also serve as a foundational course for the certificate, minor, and major in Brewing and Distilling Arts & Sciences that is currently under development.

- 2.2 Relationship of the proposed course to other courses at WKU:
Some similar content is covered in BIO/CHEM 562 which addresses biochemical compounds and their role in intermediary metabolism (including fermentation), enzyme activity and energetics. However, this new course focuses exclusively on fermentation microbiology and will serve as a foundation for the certificate, minor or major in the WKU BDAS program.
- 2.3 Relationship of the proposed course to courses offered in other departments:
There is currently no similar process-oriented course that focuses exclusively on the microbiology of fermentation.
- 2.4 Relationship of the proposed course to courses offered in other institutions:
A number of our benchmark institutions offer undergraduate courses with similar content. However, none of these programs teach courses in conjunction with a corporate partner. In addition, the brewing science programs offered at these benchmarks tend to be exclusively science-focused, without the integration of science, arts, and humanities.

Appalachian State offers a Fermentation Sciences Program. Their Principles of Fermentation Sciences (FER1000; 3 credits) covers the history, culture, and fundamental science of the fermentation processes, basic food science, microbiology, chemistry, biology, natural products chemistry and nutrition. Students are exposed to the basic methods and principles behind the fermentation process including production of cheese, bread, vegetables, meats, beer, wine, bio-fuels and distilled products. An upper level course, Brewing Science and Analysis (FER 4200, 4 credits), covers the chemical and physical processes that go into brewing malted beverages, including the choice of the hops, malt, and yeast varieties and how they are combined to produce specific styles and flavors of beers. Flavor and aroma compounds are quantified by students.

Central Michigan University's Fermentation Program is offered through the College of Science and Technology: It is a 16-credit-hour Undergraduate Certificate designed for degree seeking students of any major and non-degree-seeking students who want to understand the science and technology involved in brewing craft beer. It is designed to prepare students for entry or advancement in the brewing industry or advanced studies in fermentation science or food science. Their Applied Fermentation Science 3(SCI 322; 1-5

credits) course is a practical application of fermentation science principles in the production and analysis of beer and their Fundamentals of Fermentation Science (SCI 320; 3 credits) focuses on the biochemistry and microbiology involved in the process of brewing beer.

Eastern Kentucky University has a new Fermentation Program. Their Fermentation Microbiology course (FMT 540; 3 credits) focuses on the biochemistry, genetics, and behavior of microorganisms for the production of fermented beverages. In their Fermentation Project Lab. (FMT 549; 2 credits) students perform an independent capstone project where they decide on the process to make a final fermentation product.

Ohio University offers a Brewing Science course called “The Principles of Brewing Science” (CHEM 4501; 3 credits) which aims to demonstrate fundamental principles and concepts of biochemistry, physiology, microbiology, and plant biology through beer brewing.

A number of benchmark schools including Central Michigan, Ball State, Middle Tennessee State, Northern Illinois and Southern Mississippi offer courses in Applied and Environmental Microbiology. These are generally upper level, 3 credit hour courses that cover the microbiology of food, milk, water, sewage, and soils and the fundamentals of environmental and industrial microbiological applications. None of these courses focus exclusively on fermentation microbiology and its application to brewing and distilling.

3. Discussion of proposed course:

3.1 Schedule type: C

3.2 Learning Outcomes:

- Explain the brewing process.
- Use common brewing equipment and reagents safely and successfully
- Explain the purpose of each step in the brewing process and identify potential steps where unwanted bacterial and or yeast contamination could be introduced.
- Learn to culture bacteria and yeast
- Formulate brewing plan, generate, record and organize brewing data (using tables, diagrams and drawings as appropriate), analyze and interpret the data, and draw logical conclusions based upon collected data and the final fermented product.
- Identify and describe different yeast types
- Identify, Describe and Differentiate between bacterial cells and yeast cells
- Describe and differentiate between bacterial growth and yeast growth
- Describe parameters that affect the growth of microorganisms
- Describe ways to control the growth of microorganisms
- Explain different sanitization techniques and apply these techniques to in-class brewing projects

- Discuss the overall scientific contributions of Louis Pasteur and his particular contributions to fermentation science
- 3.3 Content outline:
History of Fermentation
- Contributions of Louis Pasteur
 - Microbiological Principles
 - Aseptic technique
 - Sterility vs Disinfection vs Sanitization vs Antiseptics
 - Safe handling of microbes
 - Proper disposal of bio-hazardous waste
 - Features of microbial cells
 - Bacteria vs Yeast
 - Types of bacteria and their impact the brewing process
 - Types of yeast and their impact of the brewing process
 - Bacterial nutrition and growth
 - Culturing bacteria and yeast
 - Parameters that affect microbial growth
 - Antimicrobial properties of Hops
 - Microscopy
 - Basic principles of microscopy
 - Cellular morphology of bacterial and yeast cells
 - Biochemistry of Fermentation
 - Cellular Metabolism
 - Basic enzymology
 - How is cellular energy generated?
 - Brewing projects
 - Evaluate the effect of different Hops additions
 - Evaluate the effect of different yeast strains
 - Set up and maintenance of research notebook
 - Presentation of scientific data
- 3.4 Student expectations and requirements: Proper laboratory notebook maintenance, exams to measure content mastery, brewing projects
- 3.5 Tentative texts and course materials:
Materials will vary from semester to semester. Among the standard texts in the field are:
- Pasteur and Modern Science (Dubos, ASM press; ISBN 1555811442),
 - The complete Joy of Homebrewing (Papazian, Harper Collins; ISBN 0060531053)
 - Brewing Microbiology (Springer: ISBN-13: 978-1461348580)
 - Yeast: The Practical Guide to Beer Fermentation (Brewers Association; ISBN-10: 0937381969)
 - Bamforth, Charles. *Beer: Tap Into the Art and Science of Brewing*. (New York: Oxford University Press, 2009)
 - Fix, George. *Principles of Brewing Science: A Study of Serious Brewing Issues*. (Boulder, Co.: Brewers Publications, 1999)
 - Palmer, John and Kaminski, Colin. *Water: A Comprehensive Guide for Brewers*. (Boulder, Co.: Brewers Publications, 2013)
 - Rogers, Adam. *Proof: The Science of Booze* (Boston: Houghton Mifflin, 2014)
 - Russell, Inge, and Stewart, Graham, eds. *Whisky: Technology, Production, and Marketing*. (Boston: Elsevier, 2014).

4. Budget implications:

- 4.1 Proposed method of staffing: Current staffing is sufficient.
- 4.2 Special equipment, materials, or library resources needed: None beyond what is already available.

5. Term for implementation: Spring 2016

6. Dates of committee approvals:

Department of Agriculture	_____ 11/20/15 _____
College Graduate Curriculum Committee	_____ 12/09/15 _____
Graduate Council	_____
University Senate	_____

***New course proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

Create a New Course (Action)

Date: 23 October 2015

College: Ogden College of Science and Engineering, Potter College of Arts & Letters

Department: Deans' Offices

Contact Person: Cathleen Webb, cathleen.webb@wku.edu, 5-6181;

Andrew McMichael, andrew.mcmichael@wku.edu, 5-6538

1. Proposed course:

- 1.1 Course prefix (subject area) and number: BDAS 595
- 1.2 Course title: Internship in Brewing/Distilling
- 1.3 Abbreviated course title: Brewing/Distilling Internship
- 1.4 Credit hours: 3-6
- 1.5 Variable credit (yes or no): No
- 1.6 Repeatable (yes or no) for total of 6 hours:
- 1.7 Grade type: Standard Letter
- 1.8 Prerequisites: Permission of program coordinator from Ogden College or Potter College.
- 1.9 Corequisites: None
- 1.10 Course description: On-site experience in a brewery or distillery, conducted under the supervision of the program coordinator and local personnel. Experience could include but is not limited to brewing, distilling, marketing, management, or other industry-related work. Can be repeated for up to six credit hours.
- 1.11 Course equivalency: None

2. Rationale:

- 2.1 Reason for developing the proposed course: The craft brewing and distilling industries are a fast-growing segment of the U.S. and Kentucky economies. Brewing and distilling contributes an annual payroll of around \$250 million each, with a direct economic impact—including retail, tourism such as the Bourbon Trail, and associated industries such as agriculture, construction, and manufacturing—of more than two billion dollars. Kentucky alone employs more than three hundred people in breweries and thousands more in brewing-related jobs, while the distilling industry employs more than three thousand in distilleries and thousands more in related jobs.

This course helps meet a workforce need in the Commonwealth and in the United States by placing students into a fast-growing segment of the economy, while at the same time providing an atmosphere in which students in various majors can gain valuable hands-on experience.

Over the past year we have gotten many requests from students and from people in the brewing and distilling industries to help with internship placements. Having an internship course specific to the industry will help students once they enter the job market.

- 2.2 Relationship of the proposed course to other courses at WKU: None

3. Discussion of proposed course:

- 3.1 Schedule type: N
- 3.2 Learning Outcomes: By the end of the course, students should be able to

- Apply knowledge from their major/minor/certificate field to the brewing and distilling industry.
 - Understand how their major/minor/certificate field relates to the brewing and/or distilling industries on a practical level.
- 3.3 Content outline:
- Under the supervision of a major professor and/or a designee of the Ogden College or Potter College Dean's office, the student will apply his/her knowledge to assignments of value within the brewing or distilling industry.
 - Students will write a final essay analyzing their experience within the context of what they had learned in their major/minor/certificate field.
 - Students will conduct directed research within the scope of their internship assignment, and produce a final research product at the end of their internship.
- 3.4 Student expectations and requirements: Students will apply for an internship through one of their major/minor/certificate professors, or a designee of the Ogden College or Potter College Dean's office. If the application comes through a major/minor/certificate professor, that professor will work with a designee of the Ogden College or Potter College Dean's office to help the student review and understand the internship policies as outlined by the Career Services Center. The student will complete a learning plan that will be approved by the faculty supervisor and/or a designee of the Ogden College or Potter College Dean's office, and a supervisor from the cooperating organization. An end-of-internship evaluation of the student's performance will come from the organization's supervisor. The student will also consult with, and design, a graduate-level research project related to the nature of his/her internship placement. The faculty advisor will assign a grade based on the supervisor's report and the student's final essay and research project.
- 3.5 Tentative texts and course materials: Will vary based on the placement.

4. Budget implications:

- 4.1 Proposed method of staffing: One of the co-directors, or a faculty member in the students' major field, will supervise and evaluate the student's internship in conjunction with the employer.
- 4.2 Special equipment, materials, or library resources needed: None

5. Term for implementation: Spring 2016

6. Dates of committee approvals:

Department of Agriculture	_____ 11/20/15
College Curriculum Committee	_____ 12/09/15
Graduate Council	_____
University Senate	_____

***New course proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.12 Course prefix (subject area) and number: CHEM 412G

1.13 Course title: Introduction to Physical Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

Graduate Council

University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.14 Course prefix (subject area) and number: CHEM 420G

1.15 Course title: Inorganic Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department	_____ 11/20/2015 _____
College Graduate Curriculum Committee	_____ 12/09/2015 _____
Graduate Council	_____
University Senate	_____

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.16 Course prefix (subject area) and number: CHEM 425G

1.17 Course title: Polymer Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

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**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.18 Course prefix (subject area) and number: CHEM 435G

1.19 Course title: Instrumental Analysis

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

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**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1 Identification of course

1.20 Course prefix (subject area) and number: CHEM 440G

1.21 Course title: Introduction to Synthetic Organic Methodology

2 Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3 Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4 Term of implementation:

Fall 2016

5 Dates of committee approvals:

Department	_____ 11/20/2015 _____
College Graduate Curriculum Committee	_____ 12/09/2015 _____
Graduate Council	_____
University Senate	_____

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1 Identification of course

1.1 Course prefix (subject area) and number: CHEM 470G

1.2 Course title: Chemistry/Middle School

2 Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3 Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4 Term of implementation:

Fall 2016

6. Dates of committee approvals:

Department	11/20/2015
College Graduate Curriculum Committee	12/09/2015
Graduate Council	_____
University Senate	_____

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**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

- 1.1 Course prefix (subject area) and number: CHEM 476G
- 1.2 Course title: Advanced Laboratory Investigations in Chemistry

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: All prerequisites have been removed.
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department	_____ 11/20/2015 _____
College Graduate Curriculum Committee	_____ 12/09/2015 _____
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**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 490G

1.2 Course title: Materials Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation:

Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

Graduate Council

University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 491G

1.2 Course title: Materials Chemistry Laboratory

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

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University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 520

1.2 Course title: Advanced Inorganic Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. **Term of implementation:** Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

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University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 531

1.2 Course title: Advanced Analytical Chemistry

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

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**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

- 1.1 Course prefix (subject area) and number: CHEM 541
- 1.2 Course title: Advanced Organic Chemistry

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: All prerequisites have been removed.
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department	11/20/2015
College Graduate Curriculum Committee	12/09/2015
Graduate Council	_____
University Senate	_____

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

- 1.1 Course prefix (subject area) and number: CHEM 550
- 1.2 Course title: Advanced Physical Chemistry

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: All prerequisites have been removed.
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department	11/20/2015
College Graduate Curriculum Committee	12/09/2015
Graduate Council	_____
University Senate	_____

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 570

1.2 Course title: Lecture Demonstration Techniques

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

Graduate Council

University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

Revise a Course (Action)

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

- 1.1 Course prefix (subject area) and number: CHEM 590
- 1.2 Course title: Material Chemistry

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: All prerequisites have been removed.
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course. Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department	_____ 11/20/2015 _____
College Graduate Curriculum Committee	_____ 12/09/2015 _____
Graduate Council	_____
University Senate	_____

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 11/9/2015

College, Department: Ogden, Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 270-745-6019

1. Identification of course

1.1 Course prefix (subject area) and number: CHEM 591

1.2 Course title: Material Chemistry Laboratory

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 credit hours:

2.4 grade type:

2.5 prerequisites: All prerequisites have been removed.

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course:

Each academic institution has its own unique course number for a given course.

Therefore, WKU undergraduate prerequisite course numbers cannot be required for graduate students matriculating from other Universities or Colleges. The chemistry graduate committee will evaluate undergraduate transcripts for readiness to take this course.

4. Term of implementation: Fall 2016

5. Dates of committee approvals:

Department

11/20/2015

College Graduate Curriculum Committee

12/09/2015

Graduate Council

University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: November 11, 2015

College, Department: University College, Diversity & Community Studies

Contact Person: Kristi Branham, Kristi.branham@wku.edu, 2943

1. Identification of course

1.1 Course prefix (subject area) and number: GWS 590

1.2 Course title: Directed Study in Women's and Gender Studies

2. Proposed change(s):

2.1 course number:

2.2 course title:

2.3 **credit hours: 1-3, repeatable up to 6 hours**

2.4 grade type:

2.5 prerequisites:

2.6 corequisites:

2.7 course description:

2.8 other:

3. Rationale for revision of course: We occasionally find that a student needs fewer than 3 hours to complete an independent study project. Allowing for variable hours, 1-6, would allow maximum flexibility.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

Department

November 18, 2015

College Curriculum Committee

December 3, 2015

Graduate Council

University Senate

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: November 11, 2015

College, Department: University College, Diversity & Community Studies

Contact Person: Jane Olmsted, jane.olmsted@wku.edu, 5787

1. Identification of course

- 1.1 Course prefix (subject area) and number: SRSC 579
- 1.2 Course title: Independent Study in Social Responsibility and Sustainable Communities

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours: 1-3, repeatable up to 6 hours
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: We occasionally find that a student needs fewer than 3 hours to complete an independent study project. Allowing for variable hours, 1-6, would allow maximum flexibility.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

Department	November 18, 2015
College Curriculum Committee	<hr/> December 3, 2015
Graduate Council	<hr/>
University Senate	<hr/> <hr/>

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course: Prerequisites
(Action)**

Date: 11/8/2016

College, Department: CHHS, School of Nursing

Contact Person: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 503
- 1.2 Course title: Advanced Health Assessment

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: Admission to DNP or MSN program or permission of instructor
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The old prerequisite NURS 506 is no longer required for either the MSN-Nurse Educator, or the BSN to DNP – FNP students.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

SON Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course: Prerequisites
(Action)**

Date: 11/08/2015

College, Department: CHHS, School of Nursing

Contact: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 504
- 1.2 Course title: Theoretical Foundations of Professional Nursing

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: Admitted to the DNP or MSN program or permission of instructor
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. **Rationale for revision of course:** DNP and MSN students now enroll in this class. This change allows for enrollment without override for both the DNP and MSN students.

4. **Term of implementation:** Summer 2016

5. Dates of committee approvals:

School of Nursing Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course Catalog Description
(Action)**

Date: 11/08/2015

College, Department: CHHS, School of Nursing

Contact: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 508
- 1.2 Course title: Advanced Issues in Professional Nursing

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description: Analysis and synthesis of selected political, legal, ethical, socioeconomic, and technological issues impacting advanced nursing practice.
- 2.8 other:

3. Rationale for revision of course: DNP and MSN students now enroll in this class. This catalog description reflects the content appropriate to both DNP and MSN students.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

School of Nursing Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course: Prerequisites
(Action)**

Date: 9/8/2015

College, Department: CHHS, School of Nursing

Contact Person: Beverly Siegrist, Beverly.siegrist@wku.edu 5-3490

1. Identification of course

- 1.1 Course prefix and number: NURS 509
- 1.2 Course title: Practice Management for Advanced Practice Nurses

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites: None
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

This course is used in both the BSN to DNP- FNP, and the Psychiatric Mental Health NP. The placement of the course is needed at various times in the curriculum not just with NURS 554.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

SON Graduate Committee	11/12/15
College Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course: Prerequisites & Catalog Description
(Action)**

Date: 11/8/2016

College, Department: CHHS, School of Nursing

Contact Person: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 522
- 1.2 Course title: Teaching in Schools of Nursing Internship

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: None
- 2.6 corequisites:
- 2.7 course description: This course provides the student the opportunity to implement the nurse-faculty role in an academic setting. The student works with an experienced nurse-faculty to gain actual experience teaching nursing and refining techniques related to the teaching-learning process. Students must be in the final semester of the program to enroll in this capstone experience.
- 2.8 other:

3. Rationale for revision of course: NURS 518 and NURS 520, formerly required as prerequisites are no longer required in the MSN Nurse Educator curriculum. The addition to the catalog descriptions further describes to the student when they may enroll in NURS 522, the capstone experience.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

SON Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course Prerequisites
(Action)**

Date: 11/8/2016

College, Department: CHHS, School of Nursing

Contact Person: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 605
- 1.2 Course title: Leadership in Nursing Practice

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: admission to MSN or DNP or permission of instructor
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course:

This course is now required for both the BSN-DNP FNP as well. It is a required course for MSN Nurse Educator students. This change simplifies enrollment for both of these groups of students. Additionally NURS 506 and NURS 500 are no longer required in the MSN Nurse Educator concentration.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

SON Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course: Prerequisites
(Action)**

Date: 11/8/2016

College, Department: CHHS, School of Nursing

Contact Person: Beverly Siegrist, Beverly.siegrist@wku.edu, 53490

1. Identification of course

- 1.1 Course prefix and number: NURS 606
- 1.2 Course title: Advanced Clinical Practice

2. Proposed change(s):

- 2.1 course number:
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites: NURS 605 or permission of instructor
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: After teaching the course sequence NURS 605 Leadership in Nursing Practice and NURS 606, it has been determined through program evaluation that the student is most successful in the clinical following completion of NURS 605.

4. Term of implementation: Summer 2016

5. Dates of committee approvals:

SON Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

Revise a Program (Action)

Date: December 1, 2015
 College: University College
 Department: School of Professional Studies
 Contact Person: John Baker, john.baker1@wku.edu, 745-5149

1. Identification of program:

- 5.1 Reference number: 1723
- 5.2 Program title: Certificate in Organizational Leadership

2. Proposed change(s):

- 2.1 title:
- 2.2 admission criteria:
- 2.3 curriculum: Revise core and elective classes
- 2.4 other:

3. Detailed program description:

Existing Program	Revised Program
Core of required courses – 6 hours	Core of required courses – 6 hours
LEAD 500: Effective Leadership Studies LEAD 597: Capstone in Leadership Studies (3 hours)	LEAD 500: Effective Leadership Studies Plus either LEAD 597: Capstone in Leadership Studies (3 hours) LEAD 600: Capstone in Leadership Experience 3 hours) or NURS 530: Nursing Administration Practicum (3 hours) or NURS 780: Clinical Practicum (3 hours)

Elective courses – 6 hours	Elective courses – 6 hours
<p>Students will complete one course in two of the following categories:</p> <ul style="list-style-type: none"> • Ethics and Social Responsibility • Human Relations • Critical Thinking and Empirical Assessment <p style="text-align: center;">TOTAL CREDITS: 12</p>	<p>Advisor approved electives</p> <p style="text-align: center;">TOTAL CREDITS: 12</p>

4. Rationale: This is an effort to streamline our Organizational Leadership curriculum. LEAD 600 and LEAD 597 have had minor revisions, are both capstone courses, and now serve the same purpose. We therefore no longer have a need for LEAD 597 and will submit a request to delete this course. The addition of the two nursing practicums as substitutions for our capstone is a result of a partnership with the School of Nursing to promote leadership in a profession where 75 percent of current nurse leaders plan to leave the workforce by 2020 (*Journal of Nursing Administration* 43[3], 130-134). Faculty from the School of Nursing and Organizational Leadership will work together to design a leadership-focused practicum experience that allows nursing students to apply leadership concepts and approaches while they engage in their nursing practicum. This has been done successfully over the past year, but required an appeal to substitute NURS 780 or NURS 530 for LEAD 597. This revision will reduce the administrative process required by advisors. The addition of advisor-approved elective courses facilitates other courses that make sense for this certificate yet may not qualify for the two content areas.

5. Proposed term for implementation: Summer 2016

6. Dates of committee approvals:

Department	December 1, 2015
College Curriculum Committee	December 3, 2015
Professional Education Council (if applicable)	<u>N/A</u>
Graduate Council	_____
University Senate	_____

Revise a Program (Action)

Date: November 10, 2015
 College: University College
 Department: Diversity & Community Studies
 Contact Person: Kristi Branham, Kristi.branham@wku.edu, 2943

1. Identification of program:

- 1.1 Reference number: 1712
- 1.2 Program title: Certificate in Gender & Women's Studies

2. Proposed change(s):

- 2.1 title:
- 2.2 **admission criteria:** Delete writing sample
- 2.3 curriculum:
- 2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>Admission is based on prior academic experience. Students who wish to enroll in the certificate must provide:</p> <ul style="list-style-type: none"> 1. a personal statement explaining their interest in and reasons for pursuing this program of study; and 2. an academic writing sample of approximately 3000 words. <p>Please refer to the admission section of this catalog for Graduate School admission requirements.</p>	<p>Admission is based on prior academic experience. Students who wish to enroll in the certificate must provide:</p> <ul style="list-style-type: none"> 1. a personal statement explaining their interest in and reasons for pursuing this program of study; and 2. an academic writing sample of approximately 3000 words. <p>Please refer to the admission section of this catalog for additional Graduate School admission requirements, e.g., transcripts.</p>

- 4. **Rationale:** We added this second item several years ago when we were having problems with our students' writing abilities. This has not been an issue for 5-6 years and has proved to be a barrier for non-traditional students who've been out of school long enough to have lost or disposed of academic writing samples.

5. Proposed term for implementation: Fall 2016

6. Dates of committee approvals:

Department

November 18, 2015

College Curriculum Committee

December 3, 2015

Graduate Council

University Senate

Revise a Program

(Action)

Date: November 11, 2015

College: University College

Department: Diversity & Community Studies

Contact Person: Jane Olmsted, jane.olmsted@wku.edu, 5787

1. Identification of program:

1.1 Reference number: 0448

1.2 Program title: M.A. in Social Responsibility & Sustainable Communities

2. Proposed change(s):

2.1 title:

2.2 **admission criteria:** Clarifying attendance at SRSC 590 and adding details regarding statement of interest

2.3 **curriculum:**

2.4 other: **Program Requirement**

3. Detailed program description:

Existing Program (2013-14 Catalog)	Revised Program
<p>Program Requirements</p> <p>The MA in Social Responsibility and Sustainable Communities is comprised of a thesis and a non-thesis option. Both options require 18 hours of Core Courses plus electives, and including the thesis option, for a total of 33 hours; students are required to be in attendance during the campus-based ICSR 590 Sustainability Symposium.</p>	<p>Program Requirements</p> <p>The MA in Social Responsibility and Sustainable Communities is comprised of a thesis and a non-thesis option. Both options require 18 hours of Core Courses plus electives, for a total of 33 hours; students are required to be in attendance during the week-long portion of SRSC 590 Sustainability Symposium.</p>
<p>Program Admission</p>	<p>Program Admission</p> <p>Admission will be based on prior academic performance, a written Statement of Interest, a resume, and two letters of recommendation. In the statement of interest, please include</p>

<p>Admissions will be based on prior academic performance, a written Statement of Purpose, a resume, and two letters of recommendation.</p> <p>Please refer to the admission section of this catalog for Graduate School admission requirements.</p>	<p>relevant academic or work-related background, academic goals, and reasons why you think the SRSC is right for you.</p> <p>Please refer to the admission section of this catalog for Graduate School admission requirements.</p>
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4. Rationale: The residency portion of the online SRSC program is an important feature, and we want prospective students to know how long they should expect to be in the Bowling Green area. The reason for the revision to program admission requirements is to clarify what we are looking for in the Statement of Interest.

5. Proposed term for implementation: Summer 2016

6. Dates of committee approvals:

Department	November 18, 2015
College Curriculum Committee	<hr/> December 3, 2015
Graduate Council	<hr/>
University Senate	<hr/>
	<hr/>

Revise a Program (Action)

Date: November 2, 2015

College: CHHS

Department: Public Health

Contact Person: Ritchie D. Taylor, ritchie.taylor@wku.edu, 58975

1. Identification of program:

1.1 Reference number: 0427

1.2 Program title: Environmental Health and Safety Certificate

2. Proposed change(s):

2.1 title:

2.2 admission criteria:

2.3 curriculum: Changed one required course, reduced hours for required core, changed electives from 3 to 6 hours

2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>Program Requirements (15 hours)</p> <p><u>Required Courses (12 hours)</u> EHS 572 – Environmental and Occupational Epidemiology – 3 hours PH 577 - Environmental Toxicology – 3 hours PH584 – Principles of Environmental Health – 3 hours PH 530 – Independent Investigations in Community Health – 3 hours</p> <p><u>Elective</u> Select 3 hours from the following:¹ PH 571 – Air Quality Management EHS 580 – Solid and Hazardous Wastes PH 560 – Environmental Management and Risk Assessment PH 595 – Public Health Management of Disasters PH 510 – Watershed Management and Science</p> <p>Total Hours 15</p> <p>¹ Other elective courses may be chosen with advisor approval.</p>	<p>Program Requirements (15 hours)</p> <p><u>Required Courses (9 hours)</u> PH 577 - Environmental Toxicology – 3 hours PH584 – Principles of Environmental Health – 3 hours EOHS 580 – Solid and Hazardous Wastes – 3 hours</p> <p><u>Electives – two courses (6 hours)¹</u> PH 571 – Air Quality Management PH 560 – Environmental Management and Risk Assessment PH 595 – Public Health Management of Disasters PH 510 – Watershed Management and Science EOHS 572 – Environmental and Occupational Epidemiology – 3 hours</p> <p>Total Hours 15</p> <p>¹ Other elective courses may be chosen with advisor approval.</p>

Revise a Program (Action)

Date: 10.29.2015

College: College of Health and Human Services

Department: School of Nursing

Contact Person: Eve Main, eve.main@wku.edu, 5-3489

1. Identification of program:

1.3 Reference number: 0011

1.4 Program title: Doctor of Nursing Practice

2. Proposed change(s):

2.1 title:

2.2 admission criteria:

2.3 curriculum: An additional concentration in the BSN to DNP program is proposed to be added.

2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>Overview</p> <p>The WKU Doctorate of Nursing Practice (DNP) program is a practice focused degree preparing advanced practice nurses to assume leadership roles in healthcare. The curriculum, based on a scientific foundation for advanced practice, is designed to emphasize evidence-based practice, leadership, health policy development, and organizational analysis and change. The Post-MSN and the BSN to DNP options are available. Students completing the BSN-DNP option have a Family Nurse Practitioner (FNP) specialization and are eligible to sit for national board certification as an FNP. Both options complete a practice immersion experience and culminating DNP Project.</p> <p>Program Admission</p> <ol style="list-style-type: none"> 1. BSN or MSN from a CCNE (Commission on Collegiate Nursing Education) or Accreditation Commission for Education in Nursing (ACEN, formerly NLNAC/National League for Nursing Accrediting Commission) accredited nursing program 2. GPA - 3.25 cumulative in BSN or MSN 	<p>Overview</p> <p>The WKU Doctorate of Nursing Practice (DNP) program is a practice focused degree preparing advanced practice nurses to assume leadership roles in healthcare. The curriculum, based on a scientific foundation for advanced practice, is designed to emphasize evidence-based practice, leadership, health policy development, and organizational analysis and change. The Post-MSN and the BSN to DNP options are available. The BSN to DNP option has two concentrations: Family Nurse Practitioner (FNP) and Nurse Executive. BSN to DNP FNP students are eligible to sit for national board certification as a FNP. Both options complete a practice immersion experience and culminating DNP Project.</p> <p>Program Admission</p> <ol style="list-style-type: none"> 1. BSN or MSN from a CCNE (Commission on Collegiate Nursing Education) or Accreditation Commission for Education in Nursing (ACEN, formerly NLNAC/National League for Nursing Accrediting Commission) accredited nursing program 2. GPA - 3.25 cumulative in BSN or MSN

<p>3. Undergraduate degree from an international university outside the U.S. or English is second language submit appropriate TOFEL scores (policy established by the Graduate School)</p> <p>4. Three professional references</p> <p>5. Written goal statement</p> <p>6. Resume highlighting past education, relevant clinical experience, scholarly endeavors and professional service (BSN to DNP students must document one year of full time experience as a registered nurse)</p> <p>7. Professional license</p> <ol style="list-style-type: none"> 1. MSN - current and unencumbered RN and APN license (if applicable) in the state residence in which clinical experiences will be completed. 2. BSN - current and unencumbered RN license in Kentucky or compact state <p><i>The following requirements only apply to the MSN to DNP option:</i></p> <p>8. Completed verification of post-baccalaureate practice hours form. (Applicants who cannot demonstrate a minimum of 500 clinical clock hours in graduate program will be expected to complete clinical course work beyond the proposed curriculum.)</p> <p>9. Graduate level statistics course within past 5 years</p> <p>Following review of the admission materials by the Graduate Committee, applicants may be invited to interview with graduate faculty. Admissions are competitive. Documentation that an applicant meets the minimum admission requirements does not ensure admission to the program. It is expected that applicants have moderate technology skills and access to a personal computer and high speed DSL or broadband internet service.</p> <p>The WKU DNP program is a practice focused degree preparing advanced practice nurses to assume leadership roles in healthcare. The curriculum is based upon a strong scientific foundation for practice and is designed to emphasize evidence-based practice, leadership, health policy development, organizational analysis, and change.</p> <p>A Post MSN option for nurse practitioners or nurse administrators and a BSN to DNP option for students seeking a family nurse practitioner (FNP) degree is available.</p>	<p>3. Undergraduate degree from an international university outside the U.S. or English is second language submit appropriate TOFEL scores (policy established by the Graduate School)</p> <p>4. Three professional references</p> <p>5. Written goal statement</p> <p>6. Resume highlighting past education, relevant clinical experience, scholarly endeavors and professional service (BSN to DNP students must document one year of full time experience as a registered nurse prior to enrolling in a clinical course)</p> <p>7. Professional license</p> <ol style="list-style-type: none"> 1. MSN - current and unencumbered RN and APN license (if applicable) in the state residence in which clinical experiences will be completed. 2. BSN - current and unencumbered RN license in Kentucky or compact state <p><i>The following requirements only apply to the MSN to DNP option:</i></p> <p>8. Completed verification of post-baccalaureate practice hours form. (Applicants who cannot demonstrate a minimum of 500 clinical clock hours in graduate program will be expected to complete clinical course work beyond the proposed curriculum.)</p> <p>9. Graduate level statistics course within past 5 years</p> <p>Following review of the admission materials by the Graduate Committee, applicants may be invited to interview with graduate faculty. Admissions are competitive. Documentation that an applicant meets the minimum admission requirements does not ensure admission to the program. It is expected that applicants have moderate technology skills and access to a personal computer and high speed DSL or broadband internet service</p> <p>The WKU DNP program is a practice focused degree preparing advanced practice nurses to assume leadership roles in healthcare. The curriculum is based upon a strong scientific foundation for practice and is designed to emphasize evidence-based practice, leadership, health policy development, organizational analysis, and change.</p>
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WKU FNP students are eligible to sit for national certification as family nurse practitioners (FNP).

All students complete a practice immersion experience and culminating DNP Project with a patient population or in a healthcare system that demonstrates application of advanced clinical and evidence-based practice. It will serve as a foundation for future scholarly practice. Please refer to the [admission section](#) of this catalog for Graduate School admission requirements.

BSN to DNP Program Requirements (76 hours)

- Graduate Statistics Course – 3 hrs
- NURS 500 Advanced Physiological and Pathophysiological Concepts
- NURS 503 Advanced Health Assessment – 2 hrs
- NURS 504 Theoretical Foundations of Professional Nursing – 3 hrs
- NURS 505 Advanced Health Assessment Clinical – 1 hr
- NURS 508 Advanced Issues in Professional Nursing – 1 hr
- NURS 509 Practice Management for Advanced Practice Nurses – 1 hr
- NURS 510 Graduate Nursing Research – 3 hrs
- NURS 515 Advanced Pharmacology – 4 hrs
- NURS 546 Primary Care of the Infant, Child and Adolescent - 3 hrs
- NURS 547 Primary Care of the Infant, Child, and Adolescent Clinical – 2 hrs
- NURS 548 Primary Care of the Adult – 3 hrs
- NURS 549 Primary Care of the Adult Clinical – 2 hrs
- NURS 554 Primary Care Internship – 5 hrs
- NURS 601 Orientation to the Doctor of Nursing Practice – 2 hrs
- NURS 605 Leadership in Nursing Practice – 3 hrs
- NURS 620 Biostatistics for Healthcare Professionals – 3 hrs
- NURS 630 Advanced Epidemiology – 3 hrs
- NURS 700 Healthcare Leadership and Organizational Theory – 3 hrs
- NURS 701 Leadership in Health Policy – 3 hrs
- NURS 712 Evidenced-Based Practice – 3 hrs

Two options are available in the DNP program: MSN to DNP and BSN to DNP. The BSN to DNP has two concentrations: Family Nurse Practitioner (FNP) and Nurse Executive (NE). BSN to DNP FNP concentration students are eligible to sit for national certification as a FNP.

All students complete a practice immersion experience and culminating DNP Project with a patient population or in a healthcare system that demonstrates application of advanced clinical and evidence-based practice. It will serve as a foundation for future scholarly practice. Please refer to the [admission section](#) of this catalog for Graduate School admission requirements.

BSN to DNP Program Requirements (63 to 76 hours)

Required Core (48 hours)

- Graduate Statistics Course – 3 hrs
- ~~NURS 503 Advanced Health Assessment – 2 hrs~~
- NURS 504 Theoretical Foundations of Professional Nursing – 3 hrs
- ~~NURS 505 Advanced Health Assessment Clinical – 1 hr~~
- ~~NURS 508 Advanced Issues in Professional Nursing – 1 hr~~
- ~~NURS 509 Practice Management for Advanced Practice Nurses – 1 hr~~
- NURS 510 Graduate Nursing Research – 3 hrs
- ~~NURS 515 Advanced Pharmacology – 4 hrs~~
- ~~NURS 546 Primary Care of the Infant, Child and Adolescent – 3 hrs~~
- ~~NURS 547 Primary Care of the Infant, Child, and Adolescent Clinical – 2 hrs~~
- ~~NURS 548 Primary Care of the Adult – 3 hrs~~
- ~~NURS 549 Primary Care of the Adult Clinical – 2 hrs~~
- ~~NURS 554 Primary Care Internship – 5 hrs~~
- NURS 601 Orientation to the Doctor of Nursing Practice – 2 hrs
- NURS 605 Leadership in Nursing Practice – 3 hrs
- NURS 620 Biostatistics for Healthcare Professionals – 3 hrs
- NURS 630 Advanced Epidemiology – 3 hrs

<p>NURS 714 Economic and Financial Influence in Healthcare Systems – 3 hrs NURS 740 Technology in Healthcare – 3 hrs NURS 750 Program Development and Evaluation in Healthcare – 3hrs NURS 755 Quality Improvement in Healthcare – 3hrs NURS 765 Institutional Review Board Process in Nursing – 1 hr NURS 780 – 6 hrs</p> <p>MSN to DNP Program Requirements (36 hours) NURS 601 Orientation to the Doctor of Nursing Practice – 2 hrs</p>	<p>NURS 700 Healthcare Leadership and Organizational Theory – 3 hrs OR LEAD 500 Effective Leadership Studies 3 hrs NURS 701 Leadership in Health Policy – 3 hrs NURS 712 Evidenced-Based Practice – 3 hrs NURS 714 Economic and Financial Influence in Healthcare Systems – 3 hrs NURS 740 Technology in Healthcare – 3 hrs NURS 750 Program Development and Evaluation in Healthcare – 3hrs NURS 755 Quality Improvement in Healthcare – 3hrs NURS 765 Institutional Review Board Process in Nursing – 1 hr NURS 780 – 6 hrs</p> <p>Concentrations</p> <p>Family Nurse Practitioner (FNP) (28 hours) NURS 500 Advanced Physiological and Pathophysiological Concepts - 4 hrs NURS 503 Advanced Health Assessment – 2 hrs NURS 505 Advanced Health Assessment Clinical – 1 hr NURS 508 Advanced Issues in Professional Nursing – 1 hr NURS 509 Practice Management for Advanced Practice Nurses – 1 hr NURS 515 Advanced Pharmacology – 4 hrs NURS 546 Primary Care of the Infant, Child and Adolescent - 3 hrs NURS 547 Primary Care of the Infant, Child, and Adolescent Clinical – 2 hrs NURS 548 Primary Care of the Adult – 3 hrs NURS 549 Primary Care of the Adult Clinical – 2 hrs NURS 554 Primary Care Internship – 5 hrs</p> <p>Nurse Executive (15 hours) NURS 528 Leadership & Management Nursing Administration – 3 hrs LEAD 525 Leadership Ethics – 3 hrs LEAD 540 Leading Teams – 3 hrs BA 510 Advanced Organizational Behavior – 3 hrs COMM 581 Applied Organizational Communication - 3 hrs</p>
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<p>NURS 605 Leadership in Nursing Practice – 3 hrs</p> <p>NURS 620 Biostatistics for Healthcare Professionals – 3 hrs</p> <p>NURS 630 Advanced Epidemiology – 3 hrs</p> <p>NURS 700 Healthcare Leadership and Organizational Theory – 3 hrs</p> <p>NURS 701 Leadership in Health Policy – 3 hrs</p> <p>NURS 712 Evidenced-Based Practice – 3 hrs</p> <p>NURS 714 Economic and Financial Influence in Healthcare Systems – 3 hrs</p> <p>NURS 740 Technology in Healthcare – 3 hrs</p> <p>NURS 750 Program Development and Evaluation in Healthcare – 3hrs</p> <p>NURS 755 Quality Improvement in Healthcare – 3hrs</p> <p>NURS 765 Institutional Review Board Process in Nursing – 1 hr</p> <p>NURS 780 – 6 hrs</p>	<p>MSN to DNP Program Requirements (36 hours)</p> <p>NURS 601 Orientation to the Doctor of Nursing Practice – 2 hrs</p> <p>NURS 620 Biostatistics for Healthcare Professionals – 3 hrs</p> <p>NURS 630 Advanced Epidemiology – 3 hrs</p> <p>NURS 700 Healthcare Leadership and Organizational Theory – 3 hrs OR LEAD 500 Effective Leadership Studies</p> <p>NURS 701 Leadership in Health Policy – 3 hrs</p> <p>NURS 712 Evidenced-Based Practice – 3 hrs</p> <p>NURS 714 Economic and Financial Influence in Healthcare Systems – 3 hrs</p> <p>NURS 740 Technology in Healthcare – 3 hrs</p> <p>NURS 750 Program Development and Evaluation in Healthcare – 3hrs</p> <p>NURS 755 Quality Improvement in Healthcare – 3hrs</p> <p>NURS 765 Institutional Review Board Process in Nursing – 1 hr</p> <p>NURS 780 – 6 hrs</p>
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4. **Rationale:** Currently the MSN program has a nurse administrator concentration and the creation of a Nurse Executive concentration in the BSN-DNP provides a pathway for baccalaureate prepared nurses to pursue the DNP. This degree will prepare our graduates to influence health care outcomes for individuals or populations, includes the administration of nursing and health care organizations, and the development and implementation of health policy.

5. **Proposed term for implementation:** Summer 2016

6. **Dates of committee approvals:**

SON Graduate Committee	11/12/2015
CHHS Graduate Curriculum Committee	11/30/2015
Graduate Council Curriculum Committee	1/12/2016
Graduate Council	
University Senate	

Certificate Program - Create New (Action)

Date: 25 Sept. 2015

College: Ogden College of Science and Engineering, Potter College of Arts & Letters

Department: Deans' Offices

Contact Person: Cathleen Webb, cathleen.webb@wku.edu, 5-6181

Andrew McMichael, andrew.mcmichael@wku.edu, 5-6538

1. Identification of program:

1.1 Program title: Brewing and Distilling Arts & Sciences

1.2 Required hours: 13.5-16.5

1.3 Program Description:

Humans have been brewing alcohol since the dawn of recorded history, and distilling stretches back over a thousand years. Brewing and distilling play a major role in the Kentucky and U.S. economy. Industries as diverse as farming, tourism, construction, and retail all rely on, and contribute to alcohol production.

This multidisciplinary graduate certificate is designed to complement an existing major in a related field, by providing a background understanding of topics related to the brewing and distilling industries—the science, the business, and the history, as well as an internship—students need to become competitive in the marketplace.

Students will take four courses for the certificate. BDAS500 is an intensive introductory study of the science of fermentation. BA502 is a series of online modules designed to introduce the student to marketing, accounting, finance, management, and business math. HIST531 examines the history of brewing and distilling, and BDAS595 is a variable-credit internship placement in a sector of the brewing and distilling industry, in consultation with a faculty supervisor.

1.4 Classification of Instructional Program Code (CIP):

2. Learning outcomes of the proposed certificate program:

Upon completion of this certificate students should

- Have a basic familiarity with the brewing and distilling industries, including the underlying science, the management and business, and history;
- Have experience, through an internship, in a distillery or brewery.

3. Rationale:

3.1 Reason for developing the proposed certificate program:

The craft brewing and distilling industries are a fast-growing segment of the U.S. and Kentucky economies. Brewing and distilling contributes an annual payroll of around \$250 million each, with a direct economic impact—including retail, tourism such as the Bourbon Trail, and associated industries such as agriculture, construction, and manufacturing—of more than two

billion dollars. Kentucky alone employs more than three hundred people in breweries and thousands more in brewing-related jobs, while the distilling industry employs more than three thousand in distilleries and thousands more in related jobs. Currently, WKU offers no options that meet workforce needs associated with the brewing and distilling industries, and employers (even those in-state) look to interns and skilled employees from outside the state to meet their workforce needs.

Brewing certificates are becoming increasingly popular at universities around the country, and a few certificates in distilling have begun to crop up. The majority of these are at two-year colleges or extension campuses of existing four-year universities. Virtually all of the certificates are located in the sciences—either food sciences or chemistry of one kind or another.

In informal surveys of distilleries and breweries around the country and in Kentucky, brewers and distillers consistently stated that they wished they had had, and that they wanted new employees to have, a broad base of skills. Those surveys, conducted in 2010 and 2014 showed that industry employers wanted graduates with an education that spanned multiple disciplines, including the arts, the sciences, the humanities, business, and the health sciences fields.

This graduate certificate will give students a background in the fundamentals of the brewing and distilling industries—the science, the business, and the history, as well as an internship—they need to become competitive in the marketplace. The certificate does so by providing a traditional, broad-based liberal arts and sciences education that speaks to the core mission of WKU. Relationship of the proposed certificate program to other programs now offered by the department: None

- 3.2 Relationship of the proposed certificate program to certificate programs offered in other departments: Many departments offer graduate certificates. This was modeled on a standard 12-15 hour requirement, with extra hours allowed for extended or repeated internships. The Department of Communication offers a 12-hour Communicating in Healthcare Certificate; The Department of Philosophy and Religion offers a 15-hour Religious Studies Certificate; The School of Teacher Education offers a 15-hour Certificate in Autism Spectrum Disorders. Many others exist. No other unit offers one focus on brewing and distilling. This graduate certificate has a higher emphasis on professional practices than the undergraduate certificate; is intended for an audience of students who are familiar with the industry; and the internship is focused on a professional experience.
- 3.3 Projected enrollment in the proposed certificate program: 3-5 per year, based on student interest and inquiries from industry partners to place employees in graduate programs.
- 3.4 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): While undergraduate certificates in brewing proliferate, no other Kentucky institution offers one at the graduate level. Auburn University offers a graduate certificate in Brewing Science and Operations through their Nutrition, Dietetics, & Hospitality Management program. The University of California at Davis also offers a

Masters Brewing Program. This certificate is not meant to prepare a student to take an intensive, internationally-recognized professional examination. Our interviews with brewers and industry leaders suggest that this program is generally more applicable for a wider range of employees.

3.5 Relationship of the proposed certificate program to the university mission and objectives: This program speaks to the part of the university mission that looks to “[prepare] students of all backgrounds to be productive, engaged, and socially responsible citizen-leaders of a global society.” The Certificate in Brewing and Distilling Arts & Sciences speaks to workforce needs, and engages students in an important component of American culture, history, technology, science, and economy. The interdisciplinary nature speaks to the nature of a university—to prepare students to enter the workforce with an education that comes from a wide variety of subjects that reinforces and goes beyond what they would get by simply taking their general education classes.

4. **Admission Criteria:** minimum Graduate School admission criteria

5. **Curriculum:**

Course Title	CR
BDAS 500—The Science of Fermentation in Brewing, and Distilling	3
BA 502—MBA Foundations (online)	4.5
HIST 531—The Cultural History of Alcohol (available online)	3
BDAS 595—Internship in Brewing and Distilling*	3-6
Total	13.5-16.5

*Internship hours based on student needs in consultation with program coordinator

6. **Budget implications:** None. This certificate requires no additional faculty, nor any additional material resources.

7. **Term of implementation:** Spring 2016

8. **Dates of committee approvals:**

Department (Agriculture)	11/20/2015
College Curriculum Committee	12/09/2015
Graduate Council	_____
University Senate	_____