

MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Ms. Robin Ayers
 Dr. Ting-Hui Lee
 Dr. Phil Lienesch
 Dr. Jeremy Maddox

Dr. Andy Mienaltowski
 Dr. Les Pesterfield
 Mr. Jason Wilson

FROM: Dr. Stuart Burris, Chair

SUBJECT: Agenda for Thursday, April 22nd at 4:00 p.m.

A. OLD BUSINESS:

I. Consideration of the minutes of the March 25, 2021 meeting.

B. NEW BUSINESS:

Type of item	Description of Item & Contact Information
Informational	The following proposal was submitted via the expedited process: Proposal to Revise Course Special Requirements CE 370, Construction Materials, 2 hrs. CE 371, Construction Materials Lab, 1 hr. CE 462, Hydraulic Engineering Systems, 3 hrs.
Consent	Proposal to Revise Course Catalog Listing AERO 152, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 154, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 252, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 254, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 352, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 354, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 452, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Consent	Proposal to Revise Course Catalog Listing AERO 454, Leadership Laboratory, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course

	AERO 151, The US Air Force Today, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 153, The US Air Force Today, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 251, The Development of Air Power, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 253, The Development of Air Power, 1 hr. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 351, Air Force Leadership and Management-the Professional Officer, 3 hrs. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 353, Air Force Leadership and Management-the Professional Officer, 3 hrs. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 451, National Security Affairs/Preparation for Active Duty, 3 hrs. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Make Multiple Revisions to a Course AERO 453, National Security Affairs/Preparation for Active Duty, 3 hrs. Contact: Stuart Burris, stuart.burris@wku.edu , x2973
Action	Proposal to Create a New Course MATH 270, Mathematics of Social Justice, 3 hrs. Contact: Nicholas Fortune, nicholas.fortune@wku.edu , x3651
Action	Proposal to Make Multiple Revisions to a Course MFGE 395, Fundamentals of HACCP, 3 hrs. Contact: John Khouryieh, hanna.khouryieh@wku.edu , x4126

C. OTHER BUSINESS

Members Present:

Ms. Robin Ayers
Dr. Ting-Hui Lee
Dr. Pat Kambesis
Dr. Phil Lienesch
Dr. Jeremy Maddox
Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian
Mr. Jason Wilson

Guest:

Dr. Huanjing Wang
Dr. Dennis Roger
Dr. Dan Strunk
Dr. Nicholas Fortune

FROM: Dr. Stuart Burris, Chair

The meeting was called to order at 4:00pm.

OLD BUSINESS:

Willian/Wilson moved to approve of the minutes of the February 2021 meeting. Correction on the to vote to table CS 371. The motion to table was made by Maddox/Wilson not Kambesis/Willian. Minutes approved.

NEW BUSINESS:

Consent Agenda

CS 170 was moved to the action agenda on a motion from Maddox.

Willian/Wilson moved to approve Proposal to Revise Course Prerequisites/Corequisites: CS 301. Motion approved.

Action Agenda

School of Engineering & Applied Sciences

Maddox/Willian moved to approve Proposal to Revise Course Prerequisites/Corequisites: CS 170. Motion Approved.

Agriculture & Food Science Department

Willian/Kambesis motioned to approve proposal to Revise a Program: Ref. 508, Major in Agriculture. Motion approved.

Wilson/Ayers moved to approve Proposal to Create a New Certificate Program: Floristry. Motion approved.

Mathematics Department

Maddox/Wilson motioned to table Proposal to Create a New Course: Math 270. Seven voted to table and two abstained. Proposal tabled until next meeting.

Other Business:

Completed second reading of standing rules. Changes to standing rules approved unanimously.

March 29, 2021

**Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Special Requirements
(Consent Item)**

Contact Person: Jason Wilson, Jason.Wilson@wku.edu, 270-745-2322

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: CE 370
 - 1.2 Course title: Construction Materials

- 2. Current special requirements:**

Prerequisite(s): EM 222 and (EM 303 (may be taken concurrently))
Corequisite(s): CE 371

- 3. Proposed special requirements:**

Prerequisite(s): EM 222 (C or better) and (EM 303 (may be taken concurrently))
Corequisite(s): CE 371

- 4. Rationale for the revision of special requirements:**

“C or better” for EM 222 should have been a requirement as it is required in the major.

- 5. Effect on completion of major/minor sequence:**

None

- 6. Proposed term for implementation:**

Fall 2021

- 7. Dates of prior committee approvals:**

School of Engineering and Applied Sciences Director

Ogden College Dean

Provost

Digitally signed by Stacy
Wilson
Date: 2021.04.01
11:35:14 -05'00'

Digitally signed by Stuart
Burris
Date: 2021.04.07
13:07:08 -05'00'

March 29, 2021

**Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Special Requirements
(Consent Item)**

Contact Person: Jason Wilson, Jason.Wilson@wku.edu, 270-745-2322

1. Identification of course:

- 1.1 Course prefix (subject area) and number: CE 371
- 1.2 Course title: Construction Materials

2. Current special requirements:

Prerequisite(s): EM 222
Corequisite(s): CE 370 and EM 303

3. Proposed special requirements:

Prerequisite(s): (EM 222 (C or better)) and (EM 303 (May be taken concurrently))
Corequisite(s): CE 370

4. Rationale for the revision of special requirements:

"C or better" for EM 222 should have been a requirement as it is required in the major. Additionally EM 303 is a pre/co-requisite course for the class, therefore should be the same for the lab.

5. Effect on completion of major/minor sequence:

None

6. Proposed term for implementation:

Fall 2021

7. Dates of prior committee approvals:

School of Engineering and Applied Sciences Director

Ogden College Dean

Provost

Stacy Wilson
Digitally signed by Stacy
Wilson
Date: 2021.04.01
11:36:13 -05'00'

Stuart Burris
Digitally signed by Stuart
Burris
Date: 2021.04.07
13:07:34 -05'00'

March 29, 2021

**Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Special Requirements
(Consent Item)**

Contact Person: Jason Wilson, Jason.Wilson@wku.edu, 270-745-2322

1. Identification of course:

- 1.1 Course prefix (subject area) and number: CE 462
- 1.2 Course title: Hydraulic Engineering Systems

2. Current special requirements:

Prerequisite(s): MATH 331 and CE 461

3. Proposed special requirements:

Prerequisite(s): MATH 331 and CE 342

4. Rationale for the revision of special requirements:

It was determined that prerequisite of CE 461 (Hydrology) is not the appropriate prerequisite for this course. CE 342 (Fluid Mechanics) is the appropriate prerequisite course.

5. Effect on completion of major/minor sequence:

None

6. Proposed term for implementation:

Fall 2021

7. Dates of prior committee approvals:

School of Engineering and Applied Sciences Director

Ogden College Dean

Provost

Stacy Wilson
Digitally signed by Stacy
Wilson
Date: 2021.04.01
11:37:09 -05'00'

Stuart Burris
Digitally signed by Stuart
Burris
Date: 2021.04.07
13:07:50 -05'00'

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

- 1. Identification of course:**
 - 1.1 Course prefix (subject area) and number: AERO 152
 - 1.2 Course title: Leadership Laboratory
- 2. Current course catalog listing:** (No course description is available)
- 3. Proposed course catalog listing:**
Practical environment giving leadership training while being instructed on military customs and courtesies, physical fitness, military drill and the general Air Force environment.
- 4. Rationale for revision of the course catalog listing:** Alignment with current description used by our Air Force ROTC partners at Tennessee State University
- 5. Proposed term for implementation:** Fall 2021
- 6. Dates of prior committee approvals:**

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

University Undergraduate Curriculum Proposal Checklist

Please complete the following checklist to ensure your proposal will proceed smoothly and efficiently. Include the checklist as a cover sheet with your proposal. Proposals without the checklist will be returned to the proponent.

- For new or revised programs, courses, or course descriptions, what departments/programs have been consulted concerning potential impact (e.g. to possible duplication or conflict, changed corequisite or prerequisite for equivalent courses, etc.)? Please provide names and dates for individuals consulted.

AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.

- Has the proposal been checked carefully for mechanics, grammar, syntax, and clarity?

Stuart Burris Digitally signed by Stuart Burris
Date: 2021.03.30 16:18:27
-05'00'

Department Head

Date

Stuart Burris Digitally signed by Stuart Burris
Date: 2021.03.30 16:18:34
-05'00'

Dean or Designee

Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 154
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training while being instructed on military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

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Professional Education Council (if applicable)

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Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 252
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training while being instructed on military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

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Date

Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 254
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training while being instructed on military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

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Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 352
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training through teaching freshmen and sophomores military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

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Dean or Designee

Date

Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 354
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training through teaching freshmen and sophomores military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

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N/A

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 -05'00'

Dean or Designee

Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 452
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training through teaching freshmen and sophomores military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

Ogden College Curriculum Committee

Professional Education Council (if applicable)

General Education Committee (if applicable)

Undergraduate Curriculum Committee

University Senate

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Date

Proposal Date: April 9, 2021

**Ogden College of Science and Engineering
Proposal to Revise Course Catalog Listing
(Consent Item)**

Contact Person: Stuart Burris, stuart.burris@wku.edu, 5-2973

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AERO 454
- 1.2 Course title: Leadership Laboratory

2. Current course catalog listing: (No course description is available)

3. Proposed course catalog listing:

Practical environment giving leadership training through teaching freshmen and sophomores military customs and courtesies, physical fitness, military drill and the general Air Force environment.

4. Rationale for revision of the course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

5. Proposed term for implementation: Fall 2021

6. Dates of prior committee approvals:

Department/ Unit

N/A

Ogden College Curriculum Committee

Professional Education Council (if applicable)

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AFROTC partners at Tennessee State University requested updates

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Department Head

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Date: 2021.03.30 16:18:34
-05'00'

Dean or Designee

Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 151
- 1.2 Course title: The US Air Force Today

2. Revise course title:

- 2.1 Current course title: The US Air Force Today
- 2.2 Proposed course title: Heritage and Values
- 2.3 Proposed abbreviated title: Heritage and Values
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Freshman year. A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills.
- 5.2 Proposed course catalog listing:
Part one of a two-part survey of the U.S. Air Force as a public-service organization. Topics include: role of military in U.S. society; military history; officership; professionalism; core values; career opportunities; customs/courtesies; communication skills. Freshman Leadership Laboratory is also mandatory for AFROTC cadets and complements this course by providing followership experiences.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
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Ogden College of Science and Engineering
Proposal to Make Multiple Revisions to a Course
(Action Item)

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 153
- 1.2 Course title: The US Air Force Today

2. Revise course title:

- 2.1 Current course title: The US Air Force Today
- 2.2 Proposed course title: Heritage and Values
- 2.3 Proposed abbreviated title: Heritage and Values
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Freshman year. A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills.
- 5.2 Proposed course catalog listing:
Part two of a two-part survey of the U.S. Air Force as a public-service organization. Topics include: role of military in U.S. society; military history; officership; professionalism; core values; career opportunities; customs/courtesies; communication skills. Freshman Leadership Laboratory is also mandatory for AFROTC cadets and complements this course by providing followership experiences.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

University Undergraduate Curriculum Proposal Checklist

Please complete the following checklist to ensure your proposal will proceed smoothly and efficiently. Include the checklist as a cover sheet with your proposal. Proposals without the checklist will be returned to the proponent.

- For new or revised programs, courses, or course descriptions, what departments/programs have been consulted concerning potential impact (e.g. to possible duplication or conflict, changed corequisite or prerequisite for equivalent courses, etc.)? Please provide names and dates for individuals consulted.

AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.

- Has the proposal been checked carefully for mechanics, grammar, syntax, and clarity?

Stuart Burris Digitally signed by Stuart Burris
Date: 2021.03.30 16:18:27
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Department Head

Date

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Date: 2021.03.30 16:18:34
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Dean or Designee

Date

Ogden College of Science and Engineering
Proposal to Make Multiple Revisions to a Course
(Action Item)

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 251
- 1.2 Course title: The Development of Air Power

2. Revise course title:

- 2.1 Current course title: The Development of Air Power
- 2.2 Proposed course title: Team and Leadership Fundamentals
- 2.3 Proposed abbreviated title: Team and Leader Fundamentals
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Sophomore year. This course examines the development of air power over the past 80 years. It traces the evolution of various concepts of air power employment and focuses upon tactics that have promoted research and technological change. A variety of events and elements in the history of air power are stressed, particularly where these events provide a significant example of the impacts of air power on strategic and tactical thought.
- 5.2 Proposed course catalog listing:
Part one of a two-part course on team building and fundamentals; development/deployment of air power, a primary element of U.S. national security; leadership and quality principles; ethics and values. Leadership development based on student participation in group problem solving. Oral/written communication development. Sophomore Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing followership experiences.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

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AFROTC partners at Tennessee State University requested updates

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Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 253
- 1.2 Course title: The Development of Air Power

2. Revise course title:

- 2.1 Current course title: The Development of Air Power
- 2.2 Proposed course title: Team and Leadership Fundamentals
- 2.3 Proposed abbreviated title: Team and Leader Fundamentals
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Sophomore year. This course examines the development of air power over the past 80 years. It traces the evolution of various concepts of air power employment and focuses upon tactics that have promoted research and technological change. A variety of events and elements in the history of air power are stressed, particularly where these events provide a significant example of the impacts of air power on strategic and tactical thought.
- 5.2 Proposed course catalog listing:
Part two of a two-part course on team building and fundamentals; development/deployment of air power, a primary element of U.S. national security; leadership and quality principles; ethics and values. Leadership development based on student participation in group problem solving. Oral/written communication development. Sophomore Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing followership experiences.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

University Undergraduate Curriculum Proposal Checklist

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AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.

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Dean or Designee

Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 351
- 1.2 Course title: Air Force Leadership and Management-the Professional Officer

2. Revise course title:

- 2.1 Current course title: Air Force Leadership and Management-the Professional Officer
- 2.2 Proposed course title: Leading People and Effective Communication
- 2.3 Proposed abbreviated title: Leading and Effective Comm
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Junior year. These courses are designed to further develop the student's managerial and leadership abilities. Emphasis is placed on group discussions, seminars, writing and speaking assignments, and appropriate lectures. A detailed examination of the meanings of professionalism and integrity are discussed and exercised through practical experiences. Courses include problem solving exercises and theories of leadership and management.
- 5.2 Proposed course catalog listing:
Comprehensive study of leadership/quality management fundamentals, professional knowledge, organizational doctrine and ethics, and communication skills required of today's Air Force officer. Leadership/management case studies. A mandatory junior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit

N/A

Ogden College Curriculum Committee

Professional Education Council (if applicable)

General Education Committee (if applicable)

Undergraduate Curriculum Committee

University Senate

University Undergraduate Curriculum Proposal Checklist

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AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

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Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 353
- 1.2 Course title: Air Force Leadership and Management-the Professional Officer

2. Revise course title:

- 2.1 Current course title: Air Force Leadership and Management-the Professional Officer
- 2.2 Proposed course title: Leading People and Effective Communication
- 2.3 Proposed abbreviated title: Leading and Effective Comm
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Junior year. These courses are designed to further develop the student's managerial and leadership abilities. Emphasis is placed on group discussions, seminars, writing and speaking assignments, and appropriate lectures. A detailed examination of the meanings of professionalism and integrity are discussed and exercised through practical experiences. Courses include problem solving exercises and theories of leadership and management.
- 5.2 Proposed course catalog listing:
Comprehensive study of leadership/quality management fundamentals, professional knowledge, organizational doctrine and ethics, and communication skills required of today's Air Force officer. Leadership/management case studies. A mandatory junior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit

N/A

Ogden College Curriculum Committee

Professional Education Council (if applicable)

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Undergraduate Curriculum Committee

University Senate

University Undergraduate Curriculum Proposal Checklist

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- For new or revised programs, courses, or course descriptions, what departments/programs have been consulted concerning potential impact (e.g. to possible duplication or conflict, changed corequisite or prerequisite for equivalent courses, etc.)? Please provide names and dates for individuals consulted.

AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.

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Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 451
- 1.2 Course title: National Security Affairs / Preparation for Active Duty

2. Revise course title:

- 2.1 Current course title: National Security Affairs / Preparation for Active Duty
- 2.2 Proposed course title: National Security, Leadership Responsibilities and Commissioning Preparation
- 2.3 Proposed abbreviated title: Nat Sec, Lead Resp, Comm Prep
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Senior year. These courses are designed to improve the cadet's ability to speak and write with stylistic accuracy, clarity and dignity. They focus on the Armed Forces as an integral element of society and include an examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated. Special themes include the role of the professional officer in a democratic society, socialization process within the armed services, requisites for maintaining adequate national security forces, political, economic, and social constraints upon the national defense structure, and the impact of technological and international developments upon strategic preparedness and the overall defense policy-making process.
- 5.2 Proposed course catalog listing:
Advanced leadership development; national security processes, regional studies, advanced leadership ethics, doctrine, the military as a profession, officership, military justice, civilian control of the military. A mandatory senior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
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University Undergraduate Curriculum Proposal Checklist

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AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

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Dean or Designee

Date

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

Contact Person: Stuart Burris, stuart.burris@wku.edu, 270-745-2973

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: AERO 453
- 1.2 Course title: National Security Affairs / Preparation for Active Duty

2. Revise course title:

- 2.1 Current course title: National Security Affairs / Preparation for Active Duty
- 2.2 Proposed course title: National Security, Leadership Responsibilities and Commissioning Preparation
- 2.3 Proposed abbreviated title: Nat Sec, Lead Resp, Comm Prep
- 2.4 Rationale for revision of course title: Alignment with current title used by our Air Force ROTC partners at Tennessee State University

5. Revise course catalog listing:

- 5.1 Current course catalog listing:
Senior year. These courses are designed to improve the cadet's ability to speak and write with stylistic accuracy, clarity and dignity. They focus on the Armed Forces as an integral element of society and include an examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated. Special themes include the role of the professional officer in a democratic society, socialization process within the armed services, requisites for maintaining adequate national security forces, political, economic, and social constraints upon the national defense structure, and the impact of technological and international developments upon strategic preparedness and the overall defense policy-making process.
- 5.2 Proposed course catalog listing:
Advanced leadership development; national security processes, regional studies, advanced leadership ethics, doctrine, the military as a profession, officership, military justice, civilian control of the military. A mandatory senior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.
- 5.3 Rationale for revision of course catalog listing: Alignment with current description used by our Air Force ROTC partners at Tennessee State University

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

Department/ Unit	<u>N/A</u>
Ogden College Curriculum Committee	_____
Professional Education Council (if applicable)	_____
General Education Committee (if applicable)	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

University Undergraduate Curriculum Proposal Checklist

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AFROTC partners at Tennessee State University requested updates

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

None

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Department Head

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Date: 2021.03.30 16:18:34
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Dean or Designee

Date

(Action Item)

**Proposal to Create a New Course:
Ogden College of Science and Engineering
Department/Unit: Mathematics**

Section 1: Proponent Contact Information

- 1.1 Name/Title:** Nicholas Fortune, Assistant Professor
- 1.2 Email address:** nicholas.fortune@wku.edu
- 1.3 Phone #:** 5-3651

Section 2: Course Catalog Information

- 2.1 Course prefix (subject area) and number:** MATH 270
- 2.2 Course CIP code:** 27.0101, Mathematics, General
- 2.3 Course title:** The Mathematics of Social Justice
- 2.4 Abbreviated Course title:** MATHEMATICS OF SOCIAL JUSTICE
- 2.5 Credit hours/Variable credit:** 3
- 2.6 Repeatability:** N/A
- 2.7 Course Term: Is this course intended to span more than a single term?**

YES NO
- 2.8 Course Catalog Description:** Use of mathematical and statistical tools to examine social justice topics on local, regional, national, and global scales.
- 2.9 Prerequisites/Corequisites/Restrictions:** Prerequisites: 21 hours of Foundations & Explorations courses or junior status
- 2.10 Additional Enrollment Requirements:** N/A
- 2.11 Other Special Course Requirements:** N/A
- 2.12 Grade Type:** Standard A-F final grade
- 2.13 Schedule Type:** Lecture/Lab

Section 3: Description of proposed course

3.1 Course Content Summary: Students in MATH 270 will examine social justice topics using appropriate mathematical tools. These social justice topics include, but are not limited to, basic human needs (food, water, shelter), health care and education, criminal justice and mass incarceration, representation and political power, income and wealth distribution, and embedded within these would be racial/gender/class/etc. inequities. Students will investigate these social justice topics at local, regional, national, and global scales. Possible mathematics topics (grouped by social justice topic) are listed below. Importantly, discussion surrounding some of these mathematics topics will focus on the appropriateness and limitations of the index/measure/method to situate that these mathematics are being applied to society.

Basic Human Needs (Food, Water, Shelter)

- Measuring Standard of Living: Per Capita Gross Domestic Product, Genuine Progress Indicator, Human Development Index, Index of Social Health
- Allocation of Resources: Elementary Game Theory Models, Fairness Metrics
- Food Security: Food Desert Maps, Price Volatility, Global Hunger Index
- Analyzing Housing and Homelessness: Quantifying Discrimination, Correlation between Demographic Data and Housing Status
- Concentration of Environmental Hazards / Exporting Pollution: Geometric Map Analysis
- Defense vs. Social Spending: Sourcing, Analyzing, Representing Data

Health Care & Education

- Defining and Measuring Access to Healthcare: Problems of Data Collecting and Sourcing, UHC Indicator
- Relationship between Healthcare Access and Disease and Mortality Rates: Correlation, Regression
- Education Rates & Levels: Basic Time Series Analysis
- Relationship between Education and Standard of Living: Graphical Representation, Correlation, Regression

Criminal Justice & Mass Incarceration

- Measuring Safety: Crime Rate Statistics (and Accounting for Underreporting), Crime Harm Index
- Fairness in Policing: Probability Simulations
- Measuring Incarceration Rates across Localities, Regions, and Nations: Summary Statistics
- Analyzing Incarceration Rates Over Time: Linear & Non-Linear Modeling
- Comparing Prisoner Population to Overall Population: Goodness of Fit Testing

Representation & Political Power

- Voting with Two Choices vs. Voting with Three or More Choices: Plurality, Single Runoff, Sequential Runoff, Borda Count, Condorcet Method
- Arrow's Impossibility Theorem
- Indices of Voting Power: Banzhaf, Shapley-Shubik, Penrose

- Apportionment Methods: Hamilton's Method, Jefferson's Method, Webster's Method, Hill-Huntington Method
- Income & Wealth Distribution
- Measuring Income and Wealth Inequality: Gini Coefficient, 20:20 Ratio, Palma Ratio, Hoover Index, Atkinson Index, Generalized Entropy Index
 - Relationship between Income and Wealth Distributions and Other Issues across Localities, Regions, and Nations: Linear and Nonlinear Regression, Correlation Coefficients
 - Globalization of Labor: Linear Programming

3.2 Learning Outcomes: Upon successful completion of MATH 270, students should be able to...

- Use mathematics and statistics to analyze social justice topics on local and global scales.
- Examine the local and global interrelationships of one or more social justice topic through data analysis and basic mathematical modeling.
- Use critical thinking and quantitative reasoning to evaluate the consequences of decision-making on local and global scales.
- Interpret information presented in mathematical and/or statistical forms.
- Make inferences, evaluate assumptions, and assess limitations in the application of mathematical tools to problems in social justice.
- Perform an appropriate mathematical analysis of one or more social justice topic at local and global scales and articulate the results and implications.

3.3 Assessment/Evaluation: Students will complete written assignments and projects throughout the semester comprising applications of mathematics to a variety of social justice topics. Students will use a variety of mathematical and statistical tools to examine the history, current status, and implications of a selected social justice topic on both local and global scales, and will present their findings in a final portfolio and presentation.

Section 4: Rationale

4.1 Reason for developing this proposed course: "Timelier than ever, teaching mathematics through the lens of social justice will connect content to students' daily lives, fortify their mathematical understanding, and expose them to issues that will make them responsive citizens and leaders in the future" (Berry III et al., 2020). Students in MATH 270 will use their life experiences and knowledge from their previous learning to engage with a diverse set of social justice topics with an eye towards how mathematics can be used to understand those topics.

4.2 Relationship to similar courses offered by other university departments/units:

- Do any other courses already being offered by other university departments/units share content with this proposed course? **YES** **NO**

- Are any of the proposed pre/co-requisites for this course offered by another university department/unit? YES **NO**
- If the answer to both questions is NO, simply proceed to item 5.
- If the answer to either of those questions is YES, indicate here who in the affected departments/units was consulted, and the dates of those consultations: Dr. Fortune spoke with Drs. Drummond, Kerby, and McClain from the Department of Sociology & Criminology on Monday, January 25, 2021 and Tuesday, January 26, 2021.
 - WKU offers an interdisciplinary certificate (sociology & political science) in Citizenship and Social Justice. The following courses are part of this social science approach to the study of Social Justice issues: CSJ 200 Introduction to Social Justice, CSJ 301 Seminar in Social Justice, CSJ 435 Reimagining Citizenship, and CSJ 499 Social Justice Capstone. MATH 270 The Mathematics of Social Justice is specifically designed to critically examine social justices topics through a mathematics lens.

Section 5: Projected Enrollments/Resources

5.1 How many students per section are expected to enroll in this proposed course? 24 students

5.2 How many sections of this course per academic year will be offered? 1 section

5.3 How many students per academic year are expected to enroll? 24 students per year

5.4 How were these projections calculated? Explain any supporting evidence/data you have for arriving at these projections. The university is regularly looking to offer more Connections courses to meet student demand. Given that and the current societal interest in the topic, we believe there would be demand for the course. We do cap the course at 24 students, though, in order to maintain a healthy amount of student discussion and participation during class sessions.

5.5 Proposed method of staffing: Current Mathematics Department Faculty can teach this course. No staffing changes are needed as the course will run 1 section per year.

5.6 Instructional technology resources: Current resources are adequate.

5.7 Library resources: Will this proposed course require the use of library resources (books, journals, reference materials, audio-visual materials, electronic databases, etc.)? **YES NO**

If YES, was a Library Resources Form submitted to the appropriate collection development librarian prior to consideration at the college curriculum level?

See attached Library Resources Form.

Section 6: Proposed term for implementation: Spring 2022

Section 7: Supplemental/Supporting Documentation: Library Resources Form is attached.

LIBRARY RESOURCES, page 1 of 2
Revised April 2008

Date: 1/27/2021

Proposed Course Name and Number: MATH 270 The Mathematics of Social Justice

Current Library holdings in support of the course are:

 X adequate inadequate*

 library resources not needed for course**

* Inadequate library support will NOT delay approval. If support is adequate, additional materials may still be recommended.

** Library is not responsible for supporting course if this option is chosen.

I. Books/Electronic Resources/Other. Please list key titles, whether or not library already owns; attach course reading list, if any; library materials to be placed on reserve; wish list. If reading list not yet compiled, send asap. Attach additional sheet(s) if needed.

Books WKU Library already owns:

Taylor, A. D. & Pacelli, A. M. (2008). *Mathematics and politics: Strategy, power & proof*. New York, NY: Springer-Verlag New York.

Gutstein, E., & Peterson, B. (2006). *Rethinking mathematics: Teaching social justice by the numbers*. Milwaukee, WI: Rethinking Schools.

Brams, S. J. & Taylor, A. D. (1996). *Fair division: From cake-cutting to dispute resolution*. New York, NY: Cambridge University Press.

Saari, D. (2008). *Disposing dictators, demystifying voting paradoxes: Social choice analysis*. Cambridge, MA: Cambridge University Press.

Saari, D. (2001). *Chaotic elections! A mathematician looks at voting*. Providence, RI: American Mathematical Society.

Karaali, G., & Khadjavi, L. (2019). *Mathematics for social justice : resources for the college classroom*. MAA Press, an imprint of the American Mathematical Society.

Levy, B. S., & Sidel, V. W. (2006). *Social injustice and public health*. New York: Oxford University Press.

White, D., Crespo, S., & Civil, M. (2016). *Cases for teacher educators facilitating conversations about inequities in mathematics classrooms*. Information Age Publishing, Inc.

II. Key journal titles needed/recommended:

Journal for Research in Mathematics Education

Journal of Statistics Education

Journal of Mathematics and Culture

Journal of Urban Mathematics Education

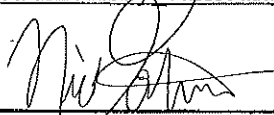
LIBRARY RESOURCES, page 2 of 2

Please submit tentative course proposal to Liaison Librarian before departmental curriculum committee meeting when proposal will be considered. This form will be signed and returned to proponent within three working days.

Find Your Liaison Librarian: http://www.wku.edu/library/dlps/subject_librarians.php

Questions or problems?

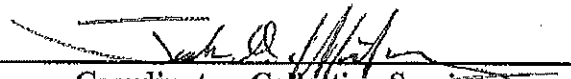
Contact Jack Montgomery, jack.montgomery@wku.edu Coordinator, Collection Services
Or UCC Library Representative,
http://www.wku.edu/senate/committees/university_curriculum_committee.php



Faculty Member Proposing Course



Liaison Librarian



Coordinator, Collection Services

University Undergraduate Curriculum Proposal Checklist

Please complete the following checklist to ensure your proposal will proceed smoothly and efficiently. Include the checklist as a cover sheet with your proposal. Proposals without the checklist will be returned to the proponent.

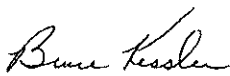
- For new or revised programs, courses, or course descriptions, what departments/programs have been consulted concerning potential impact (e.g. to possible duplication or conflict, changed corequisite or prerequisite for equivalent courses, etc.)? Please provide names and dates for individuals consulted.

Dr. Fortune spoke with Drs. Drummond, Kerby, and McClain from the Department of Sociology & Criminology on Monday, January 25, 2021 and Tuesday, January 26, 2021. WKU offers an interdisciplinary certificate (sociology & political science) in Citizenship and Social Justice. The following courses are part of this social science approach to the study of Social Justice issues: CSJ 200 Introduction to Social Justice, CSJ 301 Seminar in Social Justice, CSJ 435 Reimagining Citizenship, and CSJ 499 Social Justice Capstone. MATH 270 The Mathematics of Social Justice is specifically designed to critically examine social injustices through a mathematics lens.

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

Current Mathematics Department Faculty can teach this course. No staffing changes are needed as the course will run 1 section per year.

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.
- Has the proposal been checked carefully for mechanics, grammar, syntax, and clarity?



: Digitally signed by Kessler, Bruce
DN: cn=Kessler, Bruce, o=Western Kentucky
University, ou=Department of Mathematics,
email=bruce.kessler@wku.edu, c=US
Date: 2021.03.16 14:49:21 -0500

Department Head

3/16/2021

Date

Dean or Designee

Date

Ogden College
School of Engineering & Applied Sciences
Proposal to Make Multiple Revisions to a Course
(Action Item)

Contact Person: John Khouryieh, hanna.khouryieh@wku.edu, 270-745-4126

- 1. Identification of course:**
 - 1.1 Current course prefix (subject area) and number: MFGE395
 - 1.2 Course title: Fundamentals of HACCP

- 2. Revise course title:**
 - 2.1 Current course title: Fundamentals of HACCP
 - 2.2 Proposed course title: Food Safety Assurance
 - 2.3 Proposed abbreviated title: Food Safety
 - 2.4 Rationale for revision of course title: Hazard Analysis and Critical Control Points (HACCP) is a management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product. Under the Food Safety Modernization Act (FSMA) of 2011, HACCP is now called Food Safety Plan and is mandated to all food groups. The proposed new title will better reflect the HACCP changes in the Act.

- 3. Revise course number: N/A**
 - 3.1 Current course number:
 - 3.2 Proposed course number:
 - 3.3 Rationale for revision of course number:

- 4. Revise course prerequisites/corequisites/special requirements:**
 - 4.1 Current prerequisites/corequisites/special requirements: AMS301
Enrollment requirements: Junior Standing
 - 4.2 Proposed prerequisites/corequisites/special requirements: None
Enrollment requirements: Junior Standing or Instructor Permission
 - 4.3 Rationale for revision of course prerequisites/corequisites/special requirements: HACCP is a management system in which food safety is addressed through the analysis and control of hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product. Students in this class will be developing a food safety plan, and the course content does not require the knowledge of food science. Therefore, removing AMS301 course as a prerequisite will not affect the students' success in MFGE395 course. In addition, AMS301 course is no longer offered.

 - 4.4 Effect on completion of major/minor sequence: N/A

- 5. Revise course catalog listing: N/A**
 - 5.1 Current course catalog listing:

- 5.2 Proposed course catalog listing:
- 5.3 Rationale for revision of course catalog listing:

6. Revise course credit hours: N/A

- 6.1 Current course credit hours:
- 6.2 Proposed course credit hours:
- 6.3 Rationale for revision of course credit hours:

7. Revise schedule type: N/A

- 7.1 Current schedule type:
- 7.2 Proposed schedule type:
- 7.3 Rationale for revision of schedule type:

8. Revise grade type: N/A

- 8.1 Current grade type:
- 8.2 Proposed grade type:
- 8.3 Rationale for revision of grade type:

10. Proposed term for implementation: Fall 2021

11. Dates of prior committee approvals:

School of Engineering and Applied Sciences
OSCE College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

4/9/2021

University Undergraduate Curriculum Proposal Checklist

Please complete the following checklist to ensure your proposal will proceed smoothly and efficiently. Include the checklist as a cover sheet with your proposal. Proposals without the checklist will be returned to the proponent.

- For new or revised programs, courses, or course descriptions, what departments/programs have been consulted concerning potential impact (e.g. to possible duplication or conflict, changed corequisite or prerequisite for equivalent courses, etc.)? Please provide names and dates for individuals consulted.

Dr. Fred DeGraves, Agriculture & Food Science, 03/30/2021

- What are the potential budget implications for this proposal? If any additional staffing is required, how will it be funded? If not, how will current staffing accommodate the proposed course/program?

N/A

- If you are proposing a new undergraduate program or changes to an existing undergraduate program, please include a new or updated four-year degree pathway.
- Has the proposal been checked carefully for mechanics, grammar, syntax, and clarity?

Stacy Wilson

Digitally signed by Stacy Wilson
Date: 2021.04.01 11:19:12
-05'00'

Department Head

Dean or Designee

Date

Date