MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

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

FROM: Dr. Stuart Burris, Chair

SUBJECT: Agenda for <u>Thursday, October 22nd at 4:00 p.m.</u>

A. OLD BUSINESS:

I.   Consideration of the minutes of the September 24, 2020 meeting.

B. NEW BUSINESS:

Type of item	Description of Item & Contact Information
Information	The following proposals were submitted to the Provost via the expedited review process: **Proposal to Suspend a Program** 1. Ref. 205, Agricultural Technology Mgt. **Proposal to Revise Course Prefix** 1. AMS to AS to include 151, 163, 180, 251, 263, 273, 305, 351, 363, 369, 375, 469, and 488. 2. AMS 490 to CIT 490 3. AMS to CM to include 261, 262, and 282. 4. AMS to MFGE to include 120, 205, 217, 227, 271, 303, 310, 328, 342, 343, 252, 356, 370, 371, 394, 395, 396, and 430. 5. AMS to SEAS to include 325, 367, 368, 390, 398, 401, and 475. **Proposal to Revise Course Prerequisites/Corequisites** 1. AS 263 2. AS 351 3. AS 363 4. AS 469 5. AS 488 **Proposal to Revise a Course Number** 1. AS 490 2. CM 490 3. MFGE 490A 4. MFGE 490B
Consent	**Proposal to Suspend a Program** Ref. 435, Physics Minor, 23 hrs. Contact: Michael Carini, Michael.carini@wku.edu, x6198
Consent	**Proposal to Revise Course Catalog Listing**

	CS 301, Game Programming, 3 hrs. Contact: Huanjing Wang, hungjing.wang@wku.edu, x2672
Action	**Proposal to Create a New Course** AGRO 459, Techniques in Physical Soil Description, 3 hrs. Contact: Becky Gilfillen, becky.gilfillen@wku.edu, x5970
Action	**Proposal to Create a New Course** SEAS 175, Freshman Experience I, 1 hr. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394
Action	**Proposal to Create a New Course** SEAS 176, Freshman Experience II, 1 hr. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394
Action	**Proposal to Revise a Program** Ref. 518, Architectural Science, 81 hrs. Contact: Shahnaz Aly, Shahnaz.aly@wku.edu, x5849
Action	**Proposal to Revise a Program** Ref. 555, Computer Information Technology, 60 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394
Action	**Proposal to Revise a Program** Ref. 533, Construction Management, 81 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394
Action	**Proposal to Revise a Program** Ref. 629/629P, Computer Science, 53 hrs. Contact: Huanjing Wang, Huanjing.wang@wku.edu, x2672
Action	**Proposal to Revise a Program** Ref. 5007, Engineering Technology Management, 61 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394
Action	**Proposal to Revise a Program** Ref. 5006, Manufacturing Engineering Technology, 61 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu, x6394

C. **OTHER BUSINESS**

Minutes – OCSE Curriculum Committee

Members Present:
Ms. Robin Ayers
Dr. Mike Carini
Dr. Pat Kambesis
Dr. Phil Lienesch
Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian
Mr. Jason Wilson

Guest:
Dr. Scott Grubbs
Dr. Bashar Haddad
Dr. Leslie North
Dr. Rheanna Plemons
Ms. Jennifer Hammonds
Dr. Greg Arbuckle

FROM: Dr. Stuart Burris, Chair

The meeting was called to order at 4:01pm.

OLD BUSINESS:
Willian/Wilson moved to approve of the minutes of the April 30, 2020 meeting. Approved as presented.

NEW BUSINESS:

Action Agenda

School of Engineering & Applied Sciences
Mienaltowski/Willian moved to approve the Proposal to Revise a Program: Ref. 533, Construction Management. Motion passed with friendly amendment to include a four-year plan.

OTHER BUSINESS:

Plemons and Hammonds provided the group with CourseLeaf training.

Proposal Date:

Ogden College of Science & Engineering
Department Name: Agriculture & Food Science
Proposal to Suspend a Program
(Consent Item)

Contact Person: Fred DeGraves, fred.degraves@wku.edu, 270-745-3151
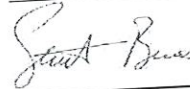
1. **Identification of program:**
   1.1 Program reference number: 205
   1.2 Program title: Agricultural Technology & Management
   1.3 Credit hours: 60

2. **Rationale for the program suspension:** Mandated

3. **Effect on current students or other departments, if known:** There will be no effects on current students or other departments as 205 program courses are a subset of both 508 and 605 programs.

4. **Proposed term for implementation:** At conclusion of academic year.

5. **Dates of prior committee approvals:**

Department/ Unit   Fred J. DeGraves 10/6/2020
                                          _____

Dean's Office   _____

Provost   _____

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prefix
(Information Item)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of current course prefix:** AMS

2. **Identification of proposed course prefix:** AS

3. **Rationale for the prefix revision:** The Department of Architectural and Manufacturing Sciences no longer exists thus the AMS prefix is no longer appropriate.

4. **Course numbers to be included under the new course prefix:**
    AMS 151
    AMS 163
    AMS 180
    AMS 251
    AMS 263
    AMS 273
    AMS 305
    AMS 351
    AMS 363
    AMS 369
    AMS 375
    AMS 469
    AMS 488

5. **Term of implementation:** Fall 2021

6. **Dates of notification to committees:**

    School of Engineering and Applied Sciences   9/25/2020 _____

    Ogden College Dean's Office   _____

    Provost   _____

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prefix
(Information Item)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of current course prefix:** AMS

2. **Identification of proposed course prefix:** CIT

3. **Rationale for the prefix revision:** The Department of Architectural and Manufacturing Sciences no longer exists thus the AMS prefix is no longer appropriate.

4. **Course numbers to be included under the new course prefix:**
    AMS 490

5. **Term of implementation:** Fall 2021

6. **Dates of notification to committees:**

School of Engineering and Applied Sciences	9/25/2020
Ogden College Dean's Office	
Provost	

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prefix
(Information Item)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. Identification of current course prefix: AMS

2. Identification of proposed course prefix: CM

3. Rationale for the prefix revision: The Department of Architectural and Manufacturing Sciences no longer exists thus the AMS prefix is no longer appropriate.

4. Course numbers to be included under the new course prefix:
   AMS 261
   AMS 262
   AMS 282

5. Term of implementation: Fall 2021

6. Dates of notification to committees:

   School of Engineering and Applied Sciences   9/25/2020
   Ogden College Dean's Office
   Provost

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prefix
(Information Item)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of current course prefix:** AMS

2. **Identification of proposed course prefix:** MFGE

3. **Rationale for the prefix revision:** The Department of Architectural and Manufacturing Sciences no longer exists thus the AMS prefix is no longer appropriate.

4. **Course numbers to be included under the new course prefix:**
   AMS 120
   AMS 205
   AMS 217
   AMS 227
   AMS 271
   AMS 303
   AMS 310
   AMS 328
   AMS 342
   AMS 343
   AMS 352
   AMS 356
   AMS 370
   AMS 371
   AMS 394
   AMS 395
   AMS 396
   AMS 430

5. **Term of implementation:** Fall 2021

6. **Dates of notification to committees:**

   School of Engineering and Applied Sciences   9/25/2020

   Ogden College Dean's Office

   Provost

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prefix
(Information Item)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of current course prefix:** AMS

2. **Identification of proposed course prefix:** SEAS

3. **Rationale for the prefix revision:** The Department of Architectural and Manufacturing Sciences no longer exists thus the AMS prefix is no longer appropriate. These are courses that support various programs.

4. **Course numbers to be included under the new course prefix:**
   AMS 325
   AMS 367
   AMS 368
   AMS 390
   AMS 398
   AMS 401
   AMS 475

5. **Term of implementation:** Fall 2021

6. **Dates of notification to committees:**

   School of Engineering and Applied Sciences   9/25/2020 _____

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Shahnaz Aly, shahnaz.aly@wku.edu, 270 745 5849

1. **Identification of course:**
   1.1   Course prefix (subject area) and number: AS 263
   1.2   Course title: Architecture Documentation I

2. **Current prerequisites/corequisites:**
   Prerequisites: AS 163 with a grade of "C" or better, CM 261

3. **Proposed prerequisites/corequisites:**
   1.1   Prerequisites: AS 163 with a grade of "C" or better
      1.1.1   Pre or co-requisites CM 261

4. **Rationale for the revision of prerequisites:**
   Due to the project based structure of AS 263 gaining the theoretical knowledge from CM 261 concurrently does not disadvantage the students.

5. **Effect on completion of major/minor sequence:**
   This will allow students to be able to continue on their appropriate matriculation through the Architectural Science program.

6. **Proposed term for implementation: Fall 2021**

7. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   **10-2020**

   Ogden College Dean's Office

   Provost

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Shahnaz Aly, shahnaz.aly@wku.edu, 270 745 5849

1. **Identification of course:**
   1.1   Course prefix (subject area) and number: AS 351
   1.2   Course title: Building Information Modeling

2. **Current prerequisites/corequisites:**
   Prerequisites: AS 251 and AS 363 with a grade of "C" or better

3. **Proposed prerequisites/corequisites:**
   1.1   Prerequisites: AS 251 and AS 263 with a grade of "C" or better

4. **Rationale for the revision of prerequisites:**
   The architecture and construction industry has shifted significantly over the last few years towards the use of Building Information Modeling (BIM) and hence getting the students exposed to BIM early on in the curriculum will enable them to be better prepared for competitive industry positions. With moving the pre-req for AS 351 from AS 363 to AS 263 students will use the project from AS 263 to understand the principles of BIM and apply those principles in AS 363.

5. **Effect on completion of major/minor sequence:**
   This will allow students to gain more experience in BIM and be better prepared for industry positions. Course sequence will move but will not affect graduation times.

6. **Proposed term for implementation: Fall 2021**

7. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   __10-2020_____

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Shahnaz Aly, shahnaz.aly@wku.edu, 270 745 5849

1. **Identification of course:**
    1.1   Course prefix (subject area) and number: AS 363
    1.2   Course title: Architecture Documentation II

2. **Current prerequisites/corequisites:**
    Prerequisites: AS 263 & AS 273 with a grade of "C" or better, AS 305

3. **Proposed prerequisites/corequisites:**
    1.1   Prerequisites: AS 273 with a grade of "C" or better, AS 305, SEAS 325 & AS 351

4. **Rationale for the revision of prerequisites:**
    Due to the demand for knowledge of BIM increasing among employers enabling students to apply knowledge from AS 351 into AS 363 will benefit students. In addition, students need to have a knowledge of Building systems (SEAS 325) in order to be successful in AS 363. Since AS 263 is a pre-requisite for AS 273 we have taken it off from the pre-req list of AS 363.

5. **Effect on completion of major/minor sequence:**
    Course sequence will move but will not affect graduation times.

6. **Proposed term for implementation: Fall 2021**

7. **Dates of prior committee approvals:**

    School of Engineering and Applied Sciences   10-2020

    Ogden College Dean's Office

    Provost

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Shahnaz Aly, shahnaz.aly@wku.edu, 270 745 5849

1. **Identification of course:**
   1.1 Course prefix (subject area) and number: AS 469
   1.2 Course title: Design Studio II

2. **Current prerequisites/corequisites:**
   Prerequisites: AS 273, AS 282, AS 325, AS 369

3. **Proposed prerequisites/corequisites:**
   3.1 Prerequisites: AS 273, AS 282 & AS 369

4. **Rationale for the revision of prerequisites:**
   The design studio focusses on schematic design of commercial structures and presentation of those designs. The design studio does not tackle electrical, mechanical systems and hence there is no need to have AS 325 as a pre-req

5. **Effect on completion of major/minor sequence:**
   This will allow students to be able to continue on their appropriate matriculation through the Architectural Science program.

6. **Proposed term for implementation: Fall 2021**

7. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   **10-2020**

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Shahnaz Aly, shahnaz.aly@wku.edu, 270 745 5849

1. **Identification of course:**
   1.1 Course prefix (subject area) and number: AS 488
   1.2 Course title: Comprehensive Design

2. **Current prerequisites/corequisites:**
   Prerequisites: AS 363 with a grade of "C" or better, AS 369

3. **Proposed prerequisites/corequisites:**
   3.1 Prerequisites: AS 369
   3.2 Prerequisites/co-requisites: AS 363 with a grade of "C" or better

4. **Rationale for the revision of prerequisites:**
   Taking AS 363 concurrently will help students who are ahead or have transferred to the major graduate on time. Content from AS 363 is applied towards the end of the AS 488 course.

5. **Effect on completion of major/minor sequence:**
   This will allow students to be able to continue on their appropriate matriculation through the Architectural Science program.

6. **Proposed term for implementation: Fall 2021**

7. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   <u>10-2020</u>

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science of Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Number
(Consent Item or Action)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of proposed course**
    1.1   Course prefix (subject area) and number: AMS 490A
    1.2   Course title: Senior Research for Architectural Sciences

2. **Proposed course number:** AS 490

3. **Rationale for revision of course number:** The Architectural and Manufacturing Sciences (AMS) department no longer exists.   All of the senior project courses in the former AMS department used AMS490X (A, B, E, or F).

4. **Proposed term for implementation:** Fall 2021

5. **Dates of prior committee approvals:**

    School of Engineering and Applied Sciences   9/25/2020 _____

    Ogden College Dean's Office   _____

    Provost   _____

Ogden College of Science of Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Number
(Consent Item or Action)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of proposed course**
   1.1   Course prefix (subject area) and number: AMS 490B
   1.2   Course title: Senior Research for Construction Management

2. **Proposed course number:** CM 490

3. **Rationale for revision of course number:** The Architectural and Manufacturing Sciences (AMS) department no longer exists.   All of the senior project courses in the former AMS department used AMS490X (A, B, E, or F).

4. **Proposed term for implementation:** Fall 2021

5. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   9/25/2020 _____

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science of Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Number
(Consent Item or Action)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of proposed course**
   1.1   Course prefix (subject area) and number: AMS 490E
   1.2   Course title: Senior Research for Manufacturing Engineering Technology

2. **Proposed course number:** MFGE 490A

3. **Rationale for revision of course number:** The Architectural and Manufacturing Sciences (AMS) department no longer exists.   All of the senior project courses in the former AMS department used AMS490X (A, B, E, or F).

4. **Proposed term for implementation:** Fall 2021

5. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   9/25/2020

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science of Engineering
School of Engineering and Applied Sciences
Proposal to Revise Course Number
(Consent Item or Action)

Contact Person: Stacy Wilson, stacy.wilson@wku.edu, 56394

1. **Identification of proposed course**
   1.1   Course prefix (subject area) and number: AMS 490F
   1.2   Course title: Senior Research for Technology Management

2. **Proposed course number:** MFGE 490B

3. **Rationale for revision of course number:** The Architectural and Manufacturing Sciences (AMS) department no longer exists.   All of the senior project courses in the former AMS department used AMS490X (A, B, E, or F).

4. **Proposed term for implementation: Fall 2021**

5. **Dates of prior committee approvals:**

   School of Engineering and Applied Sciences   9/25/2020 _____

   Ogden College Dean's Office   _____

   Provost   _____

Ogden College of Science and Engineering
Physics and Astronomy
Proposal to Suspend a Program
(Consent Item)

Contact Person: Michael Carini, 56198, mike.carini@wku.edu

1. **Identification of program:**
    1.1   Program reference number: 435
    1.2   Program title: Physics Minor
    1.3   Credit hours: 23

2. **Rationale for the program suspension:** Mandated by CAPE review

3. **Effect on current students or other departments, if known:** None. The minor is composed of a subset of course routinely offered for the physics major. Any student currently with a declared Physics minor will be able to complete the program requirements.

4. **Proposed term for implementation:** Fall 2021

5. **Dates of prior committee approvals:**

    Physics and Astronomy   <u>N/A</u>

    OCSE Curriculum Committee   _____

    Professional Education Council (if applicable)   _____

    Undergraduate Curriculum Committee   _____

    University Senate   _____

Ogden College of Science & Engineering
SEAS
Proposal to Revise Course Catalog Listing
(Consent Item)

Contact Person: Huanjing Wang, hungjing.wang@wku.edu, phone#5-2672

1. **Identification of course:**
   1.1   Course prefix (subject area) and number: CS 301
   1.2   Course title: Game Programming

2. **Current course catalog listing:** An introductory study of game software development including game object creation, animation, audio, game logic, and game engines. Design, prototyping, and development of a playable game using modern techniques will be covered. May not be counted toward a computer science major or minor.

3. **Proposed course catalog listing:** An introductory study of game software development including game object creation, animation, audio, game logic, and game engines. Design, prototyping, and development of a playable game using modern techniques will be covered.
   (aim for 25 words or less)

4. **Rationale for revision of the course catalog listing:** CS students have shown an increasing interest on game programming. It can be counted to major or minor.

5. **Proposed term for implementation: As soon as possible**

6. **Dates of prior committee approvals:**

	October 2, 2020
School of Engineering and Applied Sciences	
Ogden College Curriculum Committee	
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.

N/A

✓ 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?

No additional staffing

☐ 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: 2020.10.19 11:41:21
-05'00'

_____   _____
Department Head   Dean or Designee

_____   _____
Date   Date

<div align="center">(Action Item)</div>

Proposal to Create a New Course: AGRO 459
Ogden College of Science and Engineering
Department of Agriculture & Food Science

Section 1: Proponent Contact Information

1.1 Name/Title: Becky Gilfillen/Professor of Agriculture & Food Science
1.2 Email address: : becky.gilfillen@wku.edu
1.3 Phone #: 55970 (work) 270-779-8359(cell)

Section 2: Course Catalog Information

2.1 **Course prefix (subject area) and number:** AGRO 459

2.2 **Course CIP code:** 01.0000

2.3 **Course title:** Techniques in Physical Soil Description

2.4 **Abbreviated Course title:** Tech Physical Soil Descript.

2.5 **Credit hours/Variable credit:** 3 hours

2.6 **Repeatability:** N/A

2.7 **Course Term: Is this course intended to span more than a single term?** NO

2.8 **Course Catalog Description:** Field descriptions of soils in the southeastern U.S. based upon observations of several local soil series and their relationship to the online web soil survey. Training is provided for students seeking governmental positions in the soil science discipline.

2.9 **Prerequisite/Corequisites/Restrictions:** Prerequisite: AGRO 350

2.10 **Additional Enrollment Requirements:** Restricted to Agriculture & Food Science Majors.

2.11 **Other Special Course Requirements:** Off campus travel to field sites and a soil judging contest in the southeast region.

2.12 **Grade Type:** Students will be assigned a standard A-F final grade.

2.13 **Schedule Type:** Applied Technique

Section 3: Description of proposed course

3.1 Course Content Summary: Determination of soil color, texture, structure, consistency, clay percentage, wetness mottling, landscape position, slope, diagnostic horizons and parent materials. Based upon these factors, students will learn to place soils into taxonomic categories of order, suborder, group, subgroup, and families. These evaluations will then be compared to the web soil survey site prepared by the USDA-NRCS (soils.usda.gov).

3.2 Learning Outcomes:

1. Upon successful completion of this course, students should be able to provide the accurate soil color, texture, structure, consistency, clay percentage, wetness mottling, landscape position, slope, diagnostic horizons and parent materials for soils in the southeast.
2. Upon successful completion of this course, students should be able to place regional soils into the correct taxonomic categories.
3. Upon successful completion of this course, students should be able to compare data collected by them in the field to general soil series information from the web soil survey site and also in the official soil series description.

3.3 Assessment/Evaluation: Students will observe a variety of soil profiles in the state and region. They will be responsible for completing a description sheet for each profile along with pictures & classification of those soils. Participation will be a strong component of the grade. Based on what they learn in the field, they will have two exams will be administered which cover the information from the field work and online soil survey.

Section 4: Rationale

4.1 Reason for developing this proposed course:
This course provides a segue between collegiate learning and training and entering the work force as a Soil Scientist. USDA-NRCS estimates they will be replacing over 50% of their Soil Science staff in the next 5 years.

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? NO

- Are any of the proposed pre/co-requisites for this course offered by another university department/unit? 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: If yes above.

- **Section 5: Projected Enrollments/Resources**

    5.1 **How many students per section are expected to enroll in this proposed course?** 10

    5.2 **How many sections of this course per academic year will be offered?** 1 every other year

    5.3 **How many students per academic year are expected to enroll?** 10

    5.4 **How were these projections calculated? Explain any supporting evidence/data you have for arriving at these projections.** Based upon previous course offerings as a special topic.

    5.5 **Proposed method of staffing:** current faculty

    5.6 **Instructional technology resources: N/A**

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

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

Section 6: Proposed term for implementation: Fall 2021

Section 7: Supplemental/Supporting Documentation:

Agro 459

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.

Agriculture & Food Science, Dr. Fred DeGraves, 10/9/2020

[✓] 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?

There will be no extra cost to the department. The professor teaches a course for th

⊞

[ ] 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?

Fred J. DeGraves   Digitally signed by Fred J. DeGraves
Date: 2020.10.12 16:24:01 -05'00'
_____
Department Head

_____
Dean or Designee

10/12/2020
_____
Date

_____
Date

<div align="center">

(Action Item)

</div>

Proposal to Create a New Course
OSCE College
School of Engineering and Applied Sciences (SEAS)

Section 1: Proponent Contact Information

1.1 Name/Title: Stacy Wilson, SEAS Director
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 56394

Section 2: Course Catalog Information

2.1   Course prefix (subject area) and number: SEAS 175

2.2   Course CIP code: 14.1301

2.3   Course title: Freshmen Experience I

2.4   Abbreviated Course title: Freshmen Experience I

2.5   Credit hours/Variable credit: 1

2.6   Repeatability: N/A

2.7   Course Term: Is this course intended to span more than a single term?

NO

2.8   Course Catalog Description:
For beginning college freshmen or transfer students with fewer than 24 semester hours of credit. Transition to university experience for School of Engineering and Applied Sciences (SEAS) students. Topics include time management skills, critical thinking, exploration of SEAS majors and careers, campus resources, effective teamwork skills, and an introduction to the design process and project management.

2.9   Prerequisite/Corequisites/Restrictions: N/A

2.10 Additional Enrollment Requirements: This course will be restricted to freshmen in the School of Engineering and Applied Sciences.

2.11 Other Special Course Requirements: N/A

2.12 Grade Type: A-F final grade

2.13 Schedule Type: Seminar

Section 3: Description of proposed course

3.1 Course Content Summary:

This course is designed to prepare students to be successful in the School of Engineering and Applied Sciences. This seminar course will engage students to become engaged with the university and their major within SEAS. Students will also learn about the multiple career fields supported by SEAS programs.

3.2 Learning Outcomes:

Upon completion of this course, students should be able to:
- differentiate among the meta-majors in SEAS;
- select the correct choice of major within SEAS for their interests and abilities;
- learn about the many career fields supported by SEAS programs;
- apply teamwork skills;
- describe introductory project management and design techniques;
- apply time management skills;
- use critical thinking skills; and
- identify campus resources to support their academic career.

3.3 Assessment/Evaluation:

Students will be given a variety of assignments to help them become acclimated to WKU and to learn about their field of study. There will be some teamwork assignments to promote community among the students.

Section 4: Rationale

4.1 Reason for developing this proposed course:
The School of Engineering and Applied Sciences is home to nine undergraduate programs. The reason this course is being developed is to support the new students in the SEAS programs by developing community and to give the students information about the various SEAS programs to choose which program best fits their academic goals.

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? NO, There are many freshmen seminar courses taught across campus. This course is specific to SEAS majors.

- Are any of the proposed pre/co-requisites for this course offered by another university department/unit? 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:

Section 5: Projected Enrollments/Resources

5.1 How many students per section are expected to enroll in this proposed course? The initial offering of this course will be in support of the School of Engineering and Applied Sciences Living Learning Community (LLC) which will have a maximum of 72 students.

5.2 How many sections of this course per academic year will be offered? Initially one section will be offered per year in support of the LLC.

5.3 How many students per academic year are expected to enroll? Initially 72 students

5.4 How were these projections calculated? Explain any supporting evidence/data you have for arriving at these projections. The initial offering of the SEAS LLC will have 72 spots for students.

5.5 Proposed method of staffing: The faculty members that taught the engineering freshmen seminar course (ENGR 175) will teach this course. ENGR 175 was taught in support of the Engineering LLC will be replaced by the SEAS LLC in Fall 2021.

5.6 Instructional technology resources: The instructional technology resources of the unit are sufficient.

5.7 Library resources: NO

Section 6: Proposed term for implementation: Fall 2021

Section 7: Supplemental/Supporting Documentation:

SEAS Curriculum Committee	10/2/2020
OSCE Curriculum Committee	
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.

This course is developed as a freshmen experience for new students in the School of Engineering and Applied Sciences. No other departments have been consulted.

☑ 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?

Existing faculty that teach discipline specific freshmen experience courses will be used to teach this course. The discipline specific courses will no longer be offered.

☑ 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: 2020.09.23 15:27:09
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Department Head   Dean or Designee

Date   Date

(Action Item)

Proposal to Create a New Course
OSCE College
School of Engineering and Applied Sciences (SEAS)

Section 1: Proponent Contact Information

1.1 Name/Title: Stacy Wilson, SEAS Director
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 56394

Section 2: Course Catalog Information

2.1 Course prefix (subject area) and number: SEAS 176

2.2 Course CIP code: 14.1301

2.3 Course title: Freshmen Experience II

2.4 Abbreviated Course title: Freshmen Experience II

2.5 Credit hours/Variable credit: 1

2.6 Repeatability: N/A

2.7 Course Term: Is this course intended to span more than a single term?

NO

2.8 Course Catalog Description:
A continuation of SEAS 175. This course will focus on the application of introductory project management and design skills in a teamwork environment.

2.9 Prerequisite:
SEAS 175

2.10 Additional Enrollment Requirements: This course will be restricted to freshmen in the School of Engineering and Applied Sciences.

2.11 Other Special Course Requirements: N/A

2.12 Grade Type: A-F final grade

2.13 Schedule Type: Seminar

Section 3: Description of proposed course

3.1 Course Content Summary:
During this course, students will be placed on teams to complete a series of tasks that culminates in final project and presentation.

3.2 Learning Outcomes:

Upon completion of this course, students should be able to:
- apply teamwork skills;
- apply introductory project management and design techniques;
- apply time management skills;
- use critical thinking skills; and
- present project results in oral and written form.

3.3 Assessment/Evaluation:

Students will be placed on a multidisciplinary team to solve a semester long program which culminates in a final presentation. There will be several assignments during the semester in support of the project to serve as check points for the teams.

Section 4: Rationale

4.1 Reason for developing this proposed course: The School of Engineering and Applied Sciences is home to nine undergraduate programs. The reason this course is being developed is to continue to build community and enhance the topics from SEAS 175.

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? NO, There are many freshmen seminar courses taught across campus. This course is specific to SEAS majors.

- Are any of the proposed pre/co-requisites for this course offered by another university department/unit? 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:

Section 5: Projected Enrollments/Resources

5.1 How many students per section are expected to enroll in this proposed course? The initial offering of this course will be in support of the School of Engineering and Applied Sciences Living Learning Community (LLC) which will have a maximum of 72 students.

5.2 How many sections of this course per academic year will be offered? Initially one section will be offered per year in support of the LLC.

5.3 How many students per academic year are expected to enroll? Initially 72 students

5.4 How were these projections calculated? Explain any supporting evidence/data you have for arriving at these projections. The initial offering of the SEAS LLC will have 72 spots for students.

5.8 Proposed method of staffing: The faculty members that taught the engineering freshmen seminar course (ENGR 175) will teach this course. ENGR 175 was taught in support of the Engineering LLC will be replaced by the SEAS LLC in Fall 2021.

5.9 Instructional technology resources: The instructional technology resources of the unit are sufficient.

5.10 Library resources: NO

Section 6: Proposed term for implementation: Spring 2022

Section 7: Supplemental/Supporting Documentation:

SEAS Curriculum Committee	10/2/2020
OCSE Curriculum Committee	
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.

This course is developed as a freshmen experience for new students in the School of Engineering and Applied Sciences. No other departments have been consulted.

[✓] 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?

Existing faculty that teach discipline specific freshmen experience courses will be used to teach this course. The discipline specific courses will no longer be offered.

[✓] 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: 2020.09.23 15:27:09
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_____
Department Head

_____
Dean or Designee

_____
Date

_____
Date

Proposal to Revise a Program: Architectural Science
Ogden College
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Shahnaz Aly, Associate Professor
1.2 Email address:Shahnaz.aly@wku.edu
1.3 Phone # 270.745.5849

Section 2: Program Information

2.1 Current Program reference number: 518

2.2 Current Program title: Architectural Science

2.3 Current total number of credits required in the program: 78

Section 3: Proposed program revisions and rationales

3.1 The Architectural and Manufacturing Sciences department no longer exists since the creation of the School of Engineering and Applied Sciences. The courses with AMS prefixes have been modified to reflect the appropriate discipline (AS, CM, MFGE, or SEAS). The course prefix changes have been submitted in the expedited curriculum process.

3.2 Remove requirement of AMS 371 course required in the major. The course as it is currently set up deals with quality from the manufacturing perspective. Aspects of quality are covered in every course in the architectural science program. Faculty in the architectural science program refer to the National CAD standards to apply and educate students on expected drawing standards in their courses and building design, construction methodology standards are referenced from the AIA and applied in technical documentation courses.

3.3 Remove 11 hours of Architectural Science Electives. These are being reconfigured into the program.

3.4 Add 14 hours of Architectural Science Electives. Electives are selected from areas which enhance students perspectives in topics related to architectural science.

Section 4: Consultations

Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? <u>YES</u>

The IDFM department head was contacted on 10/19/202 about the architectural science elective options.

Section 5: Proposed term for implementation: as soon as possible

Section 6: Approval Flow Dates:

SEAS: **October 2, 2020**

Ogden College Curriculum Committee:
Undergraduate Curriculum Committee:
University Senate:

Section 7: Required Appendices: Current & proposed program descriptions:
7.1 Current Program Requirement: 78 hours

Architectural Graphics	AMS 151	3
Architectural Drafting	AMS 163	3
3D Modeling & Imaging	AMS 251	3
Construction Methods & Materials	AMS 261	3
Construction Methods & Materials Lab	AMS 262	1
Architectural Documentation I	AMS 263	3
Architectural Detailing	AMS 273	3
Architectural Structures	AMS 282	3
Building Codes	AMS 305	3
Survey of Building Systems	AMS 325	3
AMS 351Building Info Modeling	AMS 351	3
Architectural Documentation II	AMS 363	3
Architectural Design Studio I	AMS 369	4
Quality Assurance	AMS 371	3
Project Management	AMS 390	3
Internship I	AMS 398	1
Technology Mgmt./Sup./Team Blding	AMS 430	3
Architectural Design Studio II	AMS 469	4
Comprehensive Design	AMS 488	3
Senior Research Architectural Science	AMS 490-A	3
Construction Management	CE 303	3
Business Writing or Technical Writing	ENG 306 or 307	3
Management Elective		3
Architectural Science Electives		11
Additional Courses Reqd in the major:		
Trigonometry	MATH 117	3
Economics	ECON 150,150C, 202, 202C, 203, 203C, 375, 390 or BUS 160C	3
Introduction to Architecture	AMS 180	3

7.2 **Proposed** Program Requirement: 78 hours

		3
Architectural Graphics	AS 151	3
Architectural Drafting	AS 163	3
3D Modeling & Imaging	AS 251	3
Construction Methods & Materials	CM 261	3
Construction Methods & Materials Lab	CM 262	1
Architectural Documentation I	AS 263	3
Architectural Detailing	AS 273	3
Architectural Structures	CM 282	3
Building Codes	AS 305	3
Survey of Building Systems	SEAS 325	3
Building Info Modeling	AS 351	3
Architectural Documentation II	AS 363	3
Architectural Design Studio I	AS 369	4
Project Management	SEAS 390	3
Internship I	SEAS 398	1
Technology Mgmt./Sup./Team Blding	MFGE 430	3
Architectural Design Studio II	AS 469	4
Comprehensive Design	AS 488	3
Senior Research Architectural Science	AS 490	3
Construction Management	CE 303	3
Business Writing or Technical Writing	ENG 306 or 307	3
Management Elective		3
Architectural Science Electives		**14**
Additional Courses Reqd In the major		
Trigonometry	MATH 117	3
Economics	ECON 150,150C, 202, 202C, 203, 203C, 375, 390 or BUS 160C	3
Introduction to Architecture	AS 180	3

Architectural Science Electives:
IDFM 120
IDFM 201
IDFM 221
IDFM 243
IDFM 300
IDFM 301
IDFM 304
IDFM 344
IDFM 401

IDFM 421
IDFM 427
CE 160
CE 161
CE 316
CM 363
CM 462

Management Electives:
MGT 200
MGT 210

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.

None, there is no conflict with any other program. The IDFM department head was contacted on 10/19/202 about the architectural science elective options.

☑ 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?

There are no budget implications to this proposal.

☑ 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
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Date: 2020.10.05 14:17:01
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_____   _____
Department Head   Dean or Designee

_____   _____
Date   Date

BACHELOR of SCIENCE in ARCHITECTURAL SCIENCES (#518)

School of Engineering & Applied Sciences

Ogden College of Science and Engineering

Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

SAMPLE - 4 Year Plan

FIRST YEAR	Fall Semester		Spring Semester	
	AS 151 – Architectural Graphics	3	AS 163 – Architectural Drafting	3
	AS 180 – Architecture & Civilization	3	CM 261 & 262 – Construction Methods and Materials (with a Lab)	4
	MATH 117 – Trigonometry (F-QR)	3	ENG 200 Intro to Literature (F-AH)	3
	ENG 100 Intro to College Writing (F-W1)	3	Arts and Humanities (E-AH)	3
	HIST 101 World History I OR HIST 102 World History II (F-SB)	3	Natural & Physical Science (E-NS)	3
	TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**16**

SECOND YEAR	Fall Semester		Spring Semester	
	AS 251 – 3D Modeling & Imaging	3	AS 273 – Architectural Detailing	3
	AS 263 – Architecture Documentation I	3	AS 351- Building Informational Modeling	3
	AS 305 – Building Codes	3	COMM 145 Fundamentals of Public Speaking (F-OC)	3
	ECON 202 – Principles of Economics (E-SB)	3	SEAS 325 – Survey of Building Systems	3
	CM 282 – Architectural Structures	3	AS 369 – Design Studio I	4
	TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**16**

World Language Proficiency: All students entering in Fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to www.wku.edu/modernlanguages/placement/.

Colonnade Plan: All students entering in fall 2014 or later must complete 39 hours in 13 specific Colonnade areas. Colonnade areas are listed in parentheses marked in blue after the corresponding classes. Some areas may have specific course requirements while others can be chosen from selected lists of options. For more details and to see lists of options, go to http://www.wku.edu/colonnade/documents/approved_colonnade_courses_website.pdf

THIRD YEAR	Fall Semester		Spring Semester	
	AS 363 – Architecture Documentation II	3	SEAS 390 – Project Management	3
	CE 303 Construction Management	3	Architectural Science Electives	3
	Architectural Science Electives	3	ENG 300 Writing in the Disciplines (F-W2)	3
	Connections: Social and Cultural (K-SC)	3	General Elective	3
	SEAS 398 - Internship	1	Connections: Local to Global Course (K-LG)	3
	TOTAL CREDIT HOURS	**13**	**TOTAL CREDIT HOURS**	**15**

FOURTH YEAR	Fall Semester		Spring Semester	
	AS 469 – Architectural Design Studio II	4	Natural & Physical Science (E-NS,LS)	3
	AS 488 – Comprehensive Design	3	AS 490 – Senior Research Architectural Science	3
	General Elective	3	Connections Course	3
	MFGE 430: Tech Management/Supervision	3	Management Elective	3
	Architectural Science Elective	2	ENG 306 or 307	3
	TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

Total Credit Hours: 120

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change.
Consult your advisor each semester.

For more Information: **School of Engineering & Applied Sciences**
Website: www.wku.edu/seas
Phone: 270-745-3251
Email: AS@wku.edu
Course Descriptions: http://www.wku.edu/undergraduatecatalog/

Bachelor of Science in Architectural Sciences (#518) - Sample 4 Year Plan (2016-2017)

Proposal to Revise a Program: Computer Information Technology
Ogden College of Science and Engineering
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Stacy Wilson
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 270.745.6394

Section 2: Program Information

2.1 Current Program reference number: 555

2.2 Current Program title: Computer Information Technology

2.3 Current total number of credits required in the program: 60

Section 3: Proposed program revisions and rationales

3.1 The Architectural and Manufacturing Sciences department no longer exists since the creation of the School of Engineering and Applied Sciences. The courses with AMS prefixes have been modified to reflect the appropriate discipline (AS, CM, MFGE, or SEAS). The course prefix changes have been submitted in the expedited curriculum process.

Section 4: Consultations
Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? NO

Section 5: Proposed term for implementation: Fall 2021

Section 6: Approval Flow Dates:

SEAS: **2 Oct 2020**
Ogden College Curriculum Committee:
Undergraduate Curriculum Committee:
University Senate:

Section 7: Required Appendices: Current & proposed program descriptions:

7.1 Current Program Requirement: 60 hours

100/200 level of approved courses transferred from a technical school, college, or university		24
Computer Information Technology Foundations	CIT 300	3
Web Development	CIT 302	3
Systems Architecture I	CIT 310	3
Systems Architecture II	CIT 312	3
Systems Development I	CIT 330	3
Systems Development II	CIT 332	3
Database Administration I	CIT 350	3
Database Administration II	CIT 352	3
Telecommunications I	CIT 370	3
Telecommunications II	CIT 372	3
Senior Research	AMS 490	3
400 level CIT courses or Upper Division Approved Technical Electives from list below:		21
Manufacturing Operations	AMS 342	3
Supervised Work Experience in Industry	AMS 367	3
Project Management	AMS 390	3
Lean Systems	AMS 394	3
Introduction to Supply Chain Management	AMS 396	3
Technology Management / Supervision / Team Building	AMS 430	3
Selected Topics in Industry	AMS 475	3
Additional Required Course:		
College Algebra	Math 116 or higher	3
Program Grand Total Hours		**120**

7.2 Proposed Program Requirement: 60 hours

100/200 level of approved courses transferred from a technical school, college, or university		24
Computer Information Technology Foundations	CIT 300	3
Web Development	CIT 302	3
Systems Architecture I	CIT 310	3
Systems Architecture II	CIT 312	3
Systems Development I	CIT 330	3
Systems Development II	CIT 332	3
Database Administration I	CIT 350	3
Database Administration II	CIT 352	3
Telecommunications I	CIT 370	3
Telecommunications II	CIT 372	3
Senior Research	CIT 490	3
400 level CIT courses or Upper Division Approved Technical Electives from list below:		21
Manufacturing Operations	MFGE 342	3
Supervised Work Experience in Industry	SEAS 367	3
Project Management	SEAS 390	3
Lean Systems	MFGE 394	3
Introduction to Supply Chain Management	MFGE 396	3
Technology Management / Supervision / Team Building	MFGE 430	3
Selected Topics in Industry	SEAS 475	3
Additional Required Course:		
College Algebra	Math 116 or higher	3
Program Grand Total Hours		120

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.

　None, there is no conflict with any other program

☑ 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?

　There are no budget implications to this proposal.

☑ 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: 2020.10.05 14:17:01
-05'00'
_____
Department Head

_____
Dean or Designee

_____
Date

_____
Date

	BACHELOR of SCIENCE in COMPUTER INFORMATION TECHNOLOGY (#555) School of Engineering & Applied Sciences Ogden College of Science and Engineering Western Kentucky University
	The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. Admission to the major is required to register for all 300 and 400 nursing classes. All upper-division nursing courses must be taken in sequence to meet NURS course prerequisite requirements.

SAMPLE – Finish in Four Plan

FIRST YEAR

Fall Semester		Spring Semester	
ENG 100 Intro to College Writing (F-W1)	3	ENG 200 Intro to Literature (F-AH)	3
MATH 116 College Algebra **OR** MATH 109 General Mathematics (F-QR)	3	Natural & Physical Science (E-NS)	3
FREN 101 Elementary French I (or other language)	3	Arts & Humanities (E-AH)	3
COMM 145 Fundamentals of Public Speaking (F-OC)	3	FREN 102 Elementary French II (or other language, meets world language requirement)	3
UC 175 University Experience	3	HIST 101 World History I **OR** HIST 102 World History II (F-SB)	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

SECOND YEAR

Fall Semester		Spring Semester	
ENG 300 Writing in the Disciplines (F-W2)	3	Natural & Physical Science with lab (E-NS, SL)	3
Social & Behavioral Studies (E-SB)	3	CIT 300 On Line Training Foundations	3
General or minor elective	3	CIT 302 Web Development	3
General or minor elective	3	Connections: Systems (K-SY)	3
General or minor elective	3	General or minor elective	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

BACHELOR of SCIENCE in COMPUTER INFORMATION TECHNOLOGY (#555) Finish in Four plan (2019-20)

THIRD YEAR				
Fall Semester		**Spring Semester**		
Connections: Social & Cultural (K-SC)	3	Connections: Local to Global (K-LG)		3
CIT 350 Database Administration I	3	CIT 352 Database Administration II		3
CIT 370 Telecommunications I	3	CIT 372 Telecommunications II		3
CIT 310 Systems Architecture I	3	CIT 312 Systems Architecture I		3
CIT 330 Systems Development I	3	CIT 332 Systems Development II		3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**		**15**

FOURTH YEAR			
Fall Semester		**Spring Semester**	
CIT 4XX Elective	3	CIT 490	3
CIT 4XX Elective	3	CIT 4XX Elective	3
CIT 4XX Elective	3	CIT 4XX Elective	3
CIT 4XX Elective	3	CIT 4XX Elective	3
CIT 4XX Elective	3	CIT 4XX Elective	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

Total Credit Hours: 120

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

Department:	School of Engineering and Applied Sciences
Phone:	270-745-3251
Website:	www.wku.edu/cit
Email:	citinfo@wku.edu or mark.revels@wku.edu
Course Description:	http://www.wku.edu/undergraduatecatalog/

BACHELOR of SCIENCE in COMPUTER INFORMATION TECHNOLOGY (#555) Finish in Four plan (2019-20)

Proposal to Revise a Program: Construction Management
Ogden College of Science and Engineering
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Stacy Wilson, Director
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 270.745.6394

Section 2: Program Information

2.1 Current Program reference number: 533

2.2 Current Program title: Construction Management

2.3 Current total number of credits required in the program: 71-72

Section 3: Proposed program revisions and rationales

3.1 The Architectural and Manufacturing Sciences department no longer exists since the creation of the School of Engineering and Applied Sciences. The courses with AMS prefixes have been modified to reflect the appropriate discipline (AS, CM, MFGE, or SEAS). The course prefix changes have been submitted in the expedited curriculum process.

Section 4: Consultations
Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? <u>NO</u>

Section 5: Proposed term for implementation: Fall 2021

Section 6: Approval Flow Dates:

SEAS:	**2 Oct 2020**
Ogden College Curriculum Committee:	
Undergraduate Curriculum Committee:	
University Senate:	

Section 7: Required Appendices: Current & proposed program descriptions:
7.1 <u>Current</u> Program Requirement: 71-72 hours

Architectural Drafting	AMS 163	3
Industrial Material	AMS 217	3
Construction Methods and Materials	AMS 261	3
Construction Lab	AMS 262	1
Industrial Statistics	AMS 271	3
Building Structures	AMS 282	3
Building Codes	AMS 305	3
Ergonomics and Safety	AMS 310	3
Survey of Building Systems	AMS 325	3
Quality Assurance	AMS 371	3
Project Management	AMS 390	3
Lean Systems	AMS 394	3
Internship I	AMS 398	1
Technology Mgmt./Sup./Team Blding	AMS 430	3
Senior Research Construction Management	AMS 490B	3
Contract Documents	CM 250	3
Applied Soil Mechanics/Foundations	CM 346	3
Const. Estimating and Bidding	CM 363	3
Const. Scheduling	CM 462	3
Principles of Surveying	CE 160/CE 161 or AGMC170/AGMC 171	3 or 4
Construction Management	CE 303	3
Equipment and Methods	CE 316	3
Introductory Accounting-Finance (Select One)	ACCT 200, MKT 220, MKT 325, FIN 161, FINC 161C, RE 170C, BUS 100C, BUS 102C, BUS 250C, BUS 252C, or ENT 312	3
Business Law (Select One)	MGT 301 or MGT 333	3
Intro Economics/Principles of Economics (Select One)	AGEC 360, ECON 150, ECON 202, ECON 203, ECON 375, ECON 390, ECO 150C, ECO 202C, or ECO 203C	3
Additional Required Courses:		
Trigonometry	MATH 117	3
Chemistry	CHEM 105/106 or CHEM 120/121	4-5
Program Grand Total Hours		120

7.2 <u>Proposed</u> Program Requirement: 71-72 hours

Architectural Drafting	AS 163	3
Industrial Material	MFGE 217	3
Construction Methods and materials	CM 261	3
Construction Lab	CM 262	1
Industrial Statistics	MFGE 271	3
Building Structures	CM 282	3
Building Codes	AS 305	3
Ergonomics and Safety	MFGE 310	3
Survey of Building Systems	SEAS 325	3
Quality Assurance	MFGE 371	3
Project Management	SEAS 390	3
Lean Systems	MFGE 394	3
Internship I	SEAS 398	1
Technology Mgmt./Sup./Team Blding	MFGE 430	3
Senior Research Construction Management	CM 490	3
Contract Documents	CM 250	3
Const. Estimating and Bidding	CM 363	3
Applied Soil Mechanics/Foundations	CM 346	3
Const. Scheduling	CM 462	3
Principles of Surveying	CE 160/CE 161 or AGMC170/AGMC171	3 or 4
Construction Management	CE 303	3
Equipment and Methods	CE 316	3
Introductory Accounting-Finance (Select One)	ACCT 200, MKT 220, MKT 325, FIN 161, FINC 161C, RE 170C, BUS 100C, BUS 102C, BUS 250C, BUS 252C, or ENT 312	3
Business Law (Select One)	MGT 301 or MGT 333	3
Intro Economics/Principles of Economics (Select One)	AGEC 360, ECON 150, ECON 202, ECON 203, ECON 375, ECON 390, ECO 150C, ECO 202C, or ECO 203C	3
Additional Required Courses:		
Trigonometry	MATH 117	3
Chemistry	CHEM 105/106 or CHEM 120/121	4-5
Program Grand Total Hours		**120**

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.

   None, there is no conflict with any other program

✓ 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?

   There are no budget implications to this proposal.

✓ 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: 2020.10.05 14:17:01
-05'00'

_____
Department Head

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Dean or Designee

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Date

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Date

BACHELOR of SCIENCE in CONSTRUCTION MANAGEMENT (#533)
School of Engineering & Applied Sciences
Ogden College of Science and Engineering
Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

CM - Four Year Plan

FIRST YEAR

Fall Semester		Spring Semester	
AS 163 Architectural Drafting	3	CHEM 105/106 or 120/121: (E-NS, LS)	4-5
MATH 117 –Trigonometry or higher math class (Foundations)(F-QR)	3	Natural & Physical Sciences (E-NS)	3
ENG 100 Intro to College Writing (Foundation) (F-W1)	3	HIST 101 World History I OR HIST 102 World II (F-SB)	3
Arts & Humanities (E-AH)	3	Human Communication (F-OC)	3
Economics Elective* (E-SB)	3	Literary Studies (F-AH)	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16-17

SECOND YEAR

Fall Semester		Spring Semester	
CM 282 Building Structures	3	World Language	3
MFGE 310 Ergonomics and Safety	3	MFGE 271: Industrial Statistics	3
CE 160/161 Surveying 1 (with a Lab)	4	CM 261/262	4
MFGE 217: Industrial Materials	3	CM 250 Contract Documents	3
Accounting/Finance Elective*	3	General Elective	1-2
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	14-15

THIRD YEAR

Fall Semester		Spring Semester	
CM 363 Construction Estimating and Bidding I	3	CE 316 Equipment & Methods	3
AS 305 Building Codes	3	CM 462 Construction Scheduling	3
CE 303 Construction Management	3	Business Law Elective*	3
MFGE 394 Lean Systems	3	Connections: Social and Cultural (K-SC)	3
ENG 300 Writing in the Disciplines (F-W2)	3	Connections: Local to Global Course (K-LG)	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

FOURTH YEAR			
Fall Semester		**Spring Semester**	
MFGE 430 Technology Mgt/Supervision	3	CM 490 Senior Research	3
SEAS 325 Survey of Building Systems	3	MFGE 371 Quality Assurance	3
CM 346: Applied Soil Mechanics	3	SEAS 398 Internship	1
SEAS 390 Project Management	3	Connections: Systems (K-SY)	3
General Elective	3	General Elective	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**13**

Total Credit Hours: 120

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

1. Accounting/Financial Elective: Choose one course from: ACCT 200, MKT 220, MKT 325, MKT 390, FIN 161, RE170C, BUS 100C, BUS 102C, BUS 110C BUS 250C, BUS 252C, ENT 312
2. Business Law Elective: Choose one course from: MGT 301, MGT 333, MGT 365
3. Economics Elective: Choose one course from: ECON 150, ECON 202, ECON 203, ECON 375, ECON 390, AGEC 360, BUS 160C, BUS 212C

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change. Consult your advisor each semester.

For more Information:
School of Engineering and Applied Sciences
Website: www.wku.edu/seas
Phone: 270-745-3251
Email: seas@wku.edu
Course Descriptions: http://www.wku.edu/undergraduatecatalog/

BACHELOR of SCIENCE in CONSTRUCTION MANAGEMENT (#533) Finish in Four plan (2020-21)

Proposal to Revise a program: Computer Science
Ogden College
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Name/Title: Huanjing Wang, Professor
1.2 Email address: huanjing.wang@wku.edu
1.3 Phone #: 745-2672

Section 2: Program Information

2.1 Current Program reference number: 629/629P

2.2 Current Program title: Computer Science

2.3 Current total number of credits required in the program: 53

Section 3: Proposed program revisions and rationales

3.1 Remove one of pre-major requirement CS 331 and change 629P to "To be admitted to the computer science major, students must complete CS 290 or CS 221 with grades of C or better"
This revision will let students enter the major one year earlier since we decide to offer CS 339 once per year. CS 180 is prerequisite of CS 290. So we don't need to list CS 180. This will help students enter major earlier and improve the retention rate.

Section 4: Consultations: N/A
Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? <u>NO</u>

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Section 5: Proposed term for implementation: Fall 2021

Section 6: Approval Flow Dates:

School of Engineering and Applied Sciences	_____ 2 Oct 2020 _____
Ogden College Curriculum Committee	_____
Undergraduate Curriculum Committee	_____
University Senate	_____

Section 7: Required Appendices: Current & proposed program descriptions:
7.1 Current program requirement:

The major in computer science requires a minimum of **53** semester hours. To be admitted to the computer science major, students must complete ~~CS 180, CS 290, and CS 331~~ with grades of C or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses. Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information." Additional requirements are as follows:

Systems/Scientific Applications Concentration

Requirements:

CS 180 Computer Science I	4
CS 290 Computer Science II	4
CS 331 Computer Science III	3
CS 325 Computer Organization and Architecture	3
CS 339 Discrete Structures	3
CS 351 Database Management Systems I	3
CS 360 Software Engineering	3
CS 382 Programming Languages	3
CS 396 Intermediate Software Project	3
CS 421 Data Structures and Algorithm Analysis	3
CS 425 Operating Systems I	3
CS 496 Senior Project and Professional Practice	3
CS Elective*	3
CS Elective*	3
CS Elective*	3
CS Elective*	3
STAT 301 Probability and Applied Statistics	3
Technical Course Total	**53**

Other requirements:

MATH 136 Calculus I	4
ENG 307 Technical Writing	3
Math Elective*	3 or 4
Math Elective*	3
Two natural science courses (at least 6 hrs; at least one course must include a lab) designed for Science/Engineering majors	7
Other Hours Total	**20 or 21**

List of Courses to Satisfy CS Elective*

CS 372 Mobile App Development	3
CS 381 Introduction to Computer Networks	3
CS 443 Database Management Systems	3
CS 445 Operating Systems II	3

CS 446 Interactive Computer Graphics	3
CS 450 Computer Networks	3
CS 456 Artificial Intelligence	3

List of Courses to Satisfy Math Elective*

MATH 137 Calculus II	4
MATH 305 Introduction to Mathematical Modeling	3
MATH 307 Introduction to Linear Algebra	3
MATH 331 Differential Equations	3
MATH 405 Numerical Analysis I	3
MATH 406 Numerical Analysis II	3
MATH 470 Introduction to Operations Research	3
MATH 473 Introduction to Graph Theory	3
STAT 401 Regression Analysis	3
STAT 402 Experimental Design	3

General Option

Requirements:

CS 180 Computer Science I	4
CS 290 Computer Science II	4
CS 331 Computer Science III	3
CS 325 Computer Organization and Architecture	3
CS 339 Discrete Structures	3
CS 351 Database Management Systems I	3
CS 360 Software Engineering	3
CS 382 Programming Languages	3
CS 396 Intermediate Software Project	3
CS 421 Data Structures and Algorithm Analysis	3
CS 425 Operating Systems I	3
CS 496 Senior Project and Professional Practice	3
CS Elective* 200-level or above (excluding CS 226 and 257)	3
CS Elective* 300-level or above	6
CS Elective* 400-level or above	3
STAT 301	3
Technical Course Total	**53**

Other requirements:

MATH 136 Calculus I	4
ENG 307 Technical Writing	3

CS Elective*
At most 1.5 hours of credit for CS 239 may count towards the major. At most 3 hours of credit for CS 239 and 245 (only for languages for which credit is not received through another course) may count towards the major.

7.2 Proposed program requirement:

The major in computer science requires a minimum of **53** semester hours. To be admitted to the computer science major, students must complete <mark>CS 290 or CS 221</mark> with grades of C or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses. Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information." Additional requirements are as follows:

Systems/Scientific Applications Concentration

<u>Requirements:</u>

CS 180 Computer Science I	4
CS 290 Computer Science II	4
CS 331 Computer Science III	3
CS 325 Computer Organization and Architecture	3
CS 339 Discrete Structures	3
CS 351 Database Management Systems I	3
CS 360 Software Engineering	3
CS 382 Programming Languages	3
CS 396 Intermediate Software Project	3
CS 421 Data Structures and Algorithm Analysis	3
CS 425 Operating Systems I	3
CS 496 Senior Project and Professional Practice	3
CS Elective*	3
CS Elective*	3
CS Elective*	3
CS Elective*	3
STAT 301 Probability and Applied Statistics	3
Technical Course Total	**53**

<u>Other requirements:</u>

MATH 136 Calculus I	4
ENG 307 Technical Writing	3
Math Elective*	3 or 4
Math Elective*	3
Two natural science courses (at least 6 hrs; at least one course must include a lab) designed for Science/Engineering majors	7
Other Hours Total	**20 or 21**

List of Courses to Satisfy CS Elective*

CS 372 Mobile App Development	3
CS 381 Introduction to Computer Networks	3
CS 443 Database Management Systems	3
CS 445 Operating Systems II	3
CS 446 Interactive Computer Graphics	3
CS 450 Computer Networks	3

CS 456 Artificial Intelligence	3

List of Courses to Satisfy Math Elective*

MATH 137 Calculus II	4
MATH 305 Introduction to Mathematical Modeling	3
MATH 307 Introduction to Linear Algebra	3
MATH 331 Differential Equations	3
MATH 405 Numerical Analysis I	3
MATH 406 Numerical Analysis II	3
MATH 470 Introduction to Operations Research	3
MATH 473 Introduction to Graph Theory	3
STAT 401 Regression Analysis	3
STAT 402 Experimental Design	3

General Option

Requirements:

CS 180 Computer Science I	4
CS 290 Computer Science II	4
CS 331 Computer Science III	3
CS 325 Computer Organization and Architecture	3
CS 339 Discrete Structures	3
CS 351 Database Management Systems I	3
CS 360 Software Engineering	3
CS 382 Programming Languages	3
CS 396 Intermediate Software Project	3
CS 421 Data Structures and Algorithm Analysis	3
CS 425 Operating Systems I	3
CS 496 Senior Project and Professional Practice	3
CS Elective* 200-level or above (excluding CS 226 and 257)	3
CS Elective* 300-level or above	6
CS Elective* 400-level or above	3
STAT 301	3
Technical Course Total	**53**

Other requirements:

MATH 136 Calculus I	4
ENG 307 Technical Writing	3

CS Elective*
At most 1.5 hours of credit for CS 239 may count towards the major. At most 3 hours of credit for CS 239 and 245 (only for languages for which credit is not received through another course) may count towards the major.

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.

N/A

[✓] 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 staffing is enough because the change is premajorr reqirements.

[✓] 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: 2020.10.19 13:42:44 -05'00'
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Department Head

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Dean or Designee

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Date

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Date

BACHELOR of SCIENCE in COMPUTER SCIENCE – General OPTION (#629)
School of Engineering and Applied Sciences
Ogden College of Science and Engineering
Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. To be admitted to the computer science major, students must complete CS 290 or CS 221 with grades of C or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses. Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information."

SAMPLE – Finish in Four Plan

FIRST YEAR				
Fall Semester		**Spring Semester**		
CS180: Computer Science 1	4	CS290: Computer Science II	4	
Arts & Humanities Elective (E-AH)	3	MATH136: Calculus I (F-QR)	4	
ENG100: Freshman English (F-W1)	3	COMM 145: Public Speaking (F-OC)	3	
Natural and Physical Science & Lab (E-NS, LS)	4	Free Elective	3	
Free Elective	2			
TOTAL CREDIT HOURS	16	**TOTAL CREDIT HOURS**	14	

SECOND YEAR			
Fall Semester		**Spring Semester**	
CS 331 Data Structures	3	CS351: Intro to Database Systems	3
ENG307: Technical Writing	3	World History (F-SB)	3
Literary Studies (F-AH)	3	CS325: Computer Organization and Architecture	3
CS 2xx Elective	3	Free Elective	3
STAT301: Prob/Applied Stats	3	CS 339: Discrete Structures	3
TOTAL CREDIT HOURS	15	**TOTAL CREDIT HOURS**	15

THIRD YEAR				
Fall Semester		**Spring Semester**		
Natural and Physical Science (E-NS)	3	CS382: Programming Languages	3	
CS396: Intermediate Software Project	3	CS 3xx Elective	3	
CS 360: Software Engineering	3	Social & Behavioral Sciences (E-SB)	3	
CS 3xx Elective	3	Free Elective	3	
ENG300: Writing in the Disciplines (F-W2)	3	World Language (if needed) or general elective	3	
TOTAL CREDIT HOURS	15	**TOTAL CREDIT HOURS**	15	

FOURTH YEAR			
Fall Semester		**Spring Semester**	
CS425: Operating Systems I	3	CS496: CS Project and Professional Practice	3
Free Elective	3	CS 4xx Elective	3
Connections Systems (K-SY)	3	Free Elective	3
CS421: Data Structures and Algorithm Analysis	3	Connections Local to Global (K-LG)	3
Connections Social & Cultural (K-SC)	3	Free Elective	3
TOTAL CREDIT HOURS	15	**TOTAL CREDIT HOURS**	15

Total Credit Hours: 120

For more details and courses offered in the Colonnade General Education program visit the underlined website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information: **School of Engineering & Applied Sciences**

Website: www.wku.edu/seas

Phone: 270-745-3251

Email: seas@wku.edu

Course Descriptions: http://www.wku.edu/undergraduatecatalog/

BACHELOR of SCIENCE in CS – General Option (#629) Finish in Four plan (2018-19)

BACHELOR of SCIENCE in COMPUTER SCIENCE – SYSTEMS/SCIENTIFIC APPLICATIONS CONCENTRATION (#629)
School of Engineering and Applied Sciences
Ogden College of Science and Engineering
Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. To be admitted to the computer science major, students must complete CS 290 or CS 221 with grades of C or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses. Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information."

SAMPLE – Finish in Four Plan

FIRST YEAR

Fall Semester		Spring Semester	
CS180: Computer Science 1	4	CS290: Computer Science II	4
World History (F-SB)	3	MATH136: Calculus I (F-QR)	4
ENG100: Freshman English (F-W1)	3	COMM 145: Public Speaking (F-OC)	3
World Language (if needed) or general elective	3	Arts & Humanities Elective (E-AH)	3
Free Elective	3		
TOTAL CREDIT HOURS	16	**TOTAL CREDIT HOURS**	14

SECOND YEAR

Fall Semester		Spring Semester	
CS 331: Data Structures	3	CS351: Intro to Database Systems	3
STAT301: Prob/Applied Stats	3	CS 339: Discrete Structures	3
Literary Studies (F-AH)	3	CS325: Computer Organization and Architecture	3
Natural and Physical Science & Lab (E-NS, LS)	4	ENG307: Technical Writing	3
		Natural and Physical Science & Lab (E-NS)	4
TOTAL CREDIT HOURS	13	**TOTAL CREDIT HOURS**	16

BACHELOR of SCIENCE in CS – SYSTEMS (#629) Finish in Four plan (2018-19)

THIRD YEAR			
Fall Semester		**Spring Semester**	
Math Elective	3	CS382: Programming Languages	3
CS396: Intermediate Software Project	3	General Elective	3
CS 360: Software Engineering	3	CS elective (CS 372 or CS 381 or CS 446)	3
CS elective (CS 443, CS 450, or CS 456)	3	Math Elective	3
ENG300: Writing in the Disciplines (F-W2)	3	Social & Behavioral Sciences (E-SB)	3
TOTAL CREDIT HOURS	16	**TOTAL CREDIT HOURS**	15

FOURTH YEAR			
Fall Semester		**Spring Semester**	
CS425: Operating Systems I	3	CS496: CS Project and Professional Practice	3
General Elective	3	CS elective (CS 445 or CS 446)	3
Connections Systems (K-SY)	3	General Elective	3
CS421: Data Structures and Algorithm Analysis	3	Connections Local to Global (K-LG)	3
CS Elective (CS 443 or CS 456)	3	Connections Social & Cultural (K-SC)	3
TOTAL CREDIT HOURS	15	**TOTAL CREDIT HOURS**	15

Total Credit Hours: 120

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information: **School of Engineering & Applied Sciences**

Website: www.wku.edu/seas

Phone: 270-745-3251

Email: seas@wku.edu

Course Descriptions: http://www.wku.edu/undergraduatecatalog/

BACHELOR of SCIENCE in CS – SYSTEMS (#629) Finish in Four plan (2018-19)

Proposal to Revise a Program: Engineering Technology Management
Ogden College of Science and Engineering
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Stacy Wilson
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 270.745.6394

Section 2: Program Information

2.1 Current Program reference number: 5007

2.2 Current Program title: Engineering Technology Management

2.3 Current total number of credits required in the program: 63

Section 3: Proposed program revisions and rationales

3.1 The Architectural and Manufacturing Sciences department no longer exists since the creation of the School of Engineering and Applied Sciences. The courses with AMS prefixes have been modified to reflect the appropriate discipline (AS, CM, MFGE, or SEAS). The course prefix changes have been submitted in the expedited curriculum process.

Section 4: Consultations
Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? <u>No</u>

Section 5: Proposed term for implementation: Fall 2021

Section 6: Approval Flow Dates:

SEAS: **2 Oct 2020**
Odgen College Curriculum Committee:
Undergraduate Curriculum Committee:
University Senate:

1

Section 7: Required Appendices: Current & proposed program descriptions:
7.1 Current Program Requirement: 63 hours

100/200 level of approved courses transferred from a technical school, college, or university		24
Industrial Statistics (Statistics)	AMS 271	3
Senior Research	AMS 490E	3
Manufacturing Operations	AMS 342	3
Safety and Ergonomics	AMS 310	3
Systems Design and Operation (Operations Management)	AMS 356	3
Project Management	AMS 390	3
Technology Mgmt./Sup./Team Blding	AMS 430	3
Quality Assurance	AMS 371	3
Lean and Supply Chain Systems	AMS 394	3
Upper Division Approved Technical Electives		12
Additional Required Course:		
College Algebra	MATH 116 or higher	3
Program Grand Total Hours:		120

7.2 Proposed Program Requirement: 63 hours

100/200 level of approved courses transferred from a technical school, college, or university		24
Industrial Statistics (Statistics)	MFGE 271	3
Senior Research	MFGE 490 B	3
Manufacturing Operations	MFGE 342	3
Safety and Ergonomics	MFGE 310	3
Systems Design and Operation (Operations Management)	MFGE 356	3
Project Management	SEAS 390	3
Technology Mgmt./Sup./Team Blding	MFGE 430	3
Quality Assurance	MFGE 371	3
Lean and Supply Chain Systems	MFGE 394	3
Upper Division Approved Technical Electives		12
Additional Required Course:		
College Algebra	MATH 116	3
Program Grand Total Hours:		**120**

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.

None, there is no conflict with any other program

☑ 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?

There are no budget implications to this proposal.

☑ 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: 2020.10.05 14:17:01
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_____
Department Head

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Dean or Designee

_____
Date

_____
Date

BACHELOR of SCIENCE in ENGINEERING TECHNOLOGY MANAGEENT (5007)
School of Engineering and Applied Sciences
Ogden College of Science and Engineering
Western Kentucky University
The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. Admission to the major is required to register for all 300 and 400 nursing classes. All upper-division nursing courses must be taken in sequence to meet NURS course prerequisite requirements.

SAMPLE – Finish in Four Plan

THIRD YEAR				
Fall Semester			**Spring Semester**	
MFGE 271 Industrial Statistics	3		MFGE 371 Quality Assurance	3
MFGE 342 Manufacturing Operations	3		MFGE 356 Systems Design and Operations	3
Technical Upper-Division Elective	3		MFGE 310 Ergonomics and Safety	3
			MFGE 430 Technology Management / Team Building	3
TOTAL CREDIT HOURS	9		**TOTAL CREDIT HOURS**	12

FOURTH YEAR				
Fall Semester			**Spring Semester**	
SEAS 390 Project Management	3		MFGE 490B Senior Research for TM	3
MFGE 394 Lean and Supply Chain Systems	3		Technical Upper-Division Elective	3
Technical Upper-Division Elective	3		Technical Upper-Division Elective	3
TOTAL CREDIT HOURS	9		**TOTAL CREDIT HOURS**	9

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

BACHELOR of SCIENCE in TECHNOLOGY MANAGEMENT (#575) Finish in Four plan (2021-2022)

BACHELOR of SCIENCE in TECHNOLOGY MANAGEMENT (#575) Finish in Four plan (2021-2022)

Proposal to Revise a Program: Manufacturing Engineering Technology (#5006)
Ogden College of Science and Engineering
Department/Unit: School of Engineering and Applied Sciences

Section 1: Proponent Contact Information

1.1 Stacy Wilson
1.2 Email address: stacy.wilson@wku.edu
1.3 Phone # 270.745.6394

Section 2: Program Information

2.1 Current Program reference number: 5006

2.2 Current Program title: Manufacturing Engineering Technology

2.3 Current total number of credits required in the program: 61

Section 3: Proposed program revisions and rationales

3.1 The Architectural and Manufacturing Sciences department no longer exists since the creation of the School of Engineering and Applied Sciences. The courses with AMS prefixes have been modified to reflect the appropriate discipline (AS, CM, MFGE, or SEAS). The course prefix changes have been submitted in the expedited curriculum process.

Section 4: Consultations
Do any of the proposed revisions in section 3 above involve or in any other way impact other departments/units? <u>NO</u>

Section 5: Proposed term for implementation: Fall 2021

Section 6: Approval Flow Dates:

SEAS: **2 Oct 2020**
Ogden College Curriculum Committee:
Undergraduate Curriculum Committee:
University Senate:

Section 7: Required Appendices: Current & proposed program descriptions:
7.1 Current Program Requirement: 61 hours

Technical Core:		37 hrs
Finance Selective	ACCT 200 or MKT 220 or FIN 161 (E-SB) or ECON 202 or ECON 203	3
Agricultural Mechanics	AGMC 371/372	3
Basic Electricity (Digital Circuits, Circuits and Networks)	AMS 120 or EE 180 or EE 210	3
CAD (Freshman Design II)	AMS 205 or AMS 163 or ME 180	3
Industrial Statistics (Statistics)	AMS 271 or ECON 206 or MATH 183 or STAT 301	3
Internship I (Contemporary Issues)	AMS 398 or UC 400 or AMS 401	1
Senior Research	AMS 490E	3
Robotics and Machine Vision	AMS 328	3
Industrial Materials (Materials/ Methods Manufacturing)	AMS 217 or ME 240	3
Manufacturing Methods	AMS 227	3
Manufacturing Operations	AMS 342	3
Automated Systems	AMS 343	3
Computer Numeric Control	AMS 370	3
Management Core:		24 hrs
Safety and Ergonomics	AMS 310	3
Systems Design and Operation (Operations Management)	AMS 356 or MGT 314	3
Project Management	AMS 390	3
Technology Mgmt./Sup./Team Blding	AMS 430	3
Quality Assurance	AMS 371	3
Lean and Supply Chain Systems	AMS 394	3
Communications Selective	COMM 345 or COMM 346 or COMM 349(K-SY) or COMM 362 or MGT 361 or COMM 330 or COMM 348	3
Business Law Selective	MGT 301 or MGT 333	3
Additional Required Courses:		
Math	MATH 117	3
Chemistry	CHEM 105/106 OR 120/121	4-5
Physics	PHYS 231/232	4
Program Grand Total Hours:		120

7.2 Proposed Program Requirement: 61 hours

Technical Core:	37 hrs	
Finance Selective	ACCT 200 or MKT 220 or FIN 161 (E-SB) or ECON 202 or ECON 203	3
Agricultural Mechanics	AGMC 371/372	3
Basic Electricity (Digital Circuits, Circuits and Networks)	MFGE 120 or EE 180 or EE 210	3
CAD (Freshman Design II)	MFGE 205 or AS 163 or ME 180	3
Industrial Statistics (Statistics)	MFGE 271 or ECON 206 or MATH 183 or STAT 301	3
Internship I (Contemporary Issues)	SEAS 398 or UC 400 or SEAS 401	1
Senior Research	MFGE 490A	3
Robotics and Machine Vision	MFGE 328	3
Industrial Materials (Materials/ Methods Manufacturing)	MFGE 217 or ME 240	3
Manufacturing Methods	MFGE 227	3
Manufacturing Operations	MFGE 342	3
Automated Systems	MFGE 343	3
Computer Numeric Control	MFGE 370	3
Management Core:	24 hrs	
Safety and Ergonomics	MFGE 310	3
Systems Design and Operation (Operations Management)	MFGE 356 or MGT 314	3
Project Management	SEAS 390	3
Technology Mgmt./Sup./Team Blding	MFGE 430	3
Quality Assurance	MFGE 371	3
Lean and Supply Chain Systems	MFGE 394	3
Communications Selective	COMM 345 or COMM 346 or COMM 349(K-SY) or COMM 362 or MGT 361 or COMM 330 or COMM 348	3
Business Law Selective	MGT 301 or MGT 333	3
Additional Required Courses:		
Math	MATH 117	3
Chemistry	CHEM 105/106 OR 120/121	4-5
Physics	PHYS 231/232	4
Program Grand Total Hours:		120

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.

   None, there is no conflict with any other program

✓ 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?

   There are no budget implications to this proposal.

✓ 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: 2020.10.05 14:17:01
-05'00'
_____
Department Head

_____
Dean or Designee

_____
Date

_____
Date

BACHELOR of SCIENCE in MANUFACTURING ENGINEERING TECHNOLOGY (#5006)
School of Engineering & Applied Sciences
Ogden College of Science and Engineering
Western Kentucky University
The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

SAMPLE – Finish in Four Plan

FIRST YEAR

Fall Semester		Spring Semester	
AS 163 Architectural Drafting **OR** MFGE 205 CADD for Manufacturing **OR** ME 180	3	HIST 101World History I **OR** HIST 102 World History II (F-SB)	3
MFGE 120 Basic Electricity	3	MFGE 271 Industrial Statistics	3
CHEM 105 and 106 or CHEM 120 and 121	4	Finance Elective: ACCT 200 or MKT 220 or FIN 161 (E-SB) or ECON 202 or ECON 203	3
ENG 100 Intro to College Writing (F-W1)	3	MFGE 227 Introduction to Manufacturing Methods	3
MATH 117 Trigonometry (F-QR)	3	COMM 145 Fund of Public Speaking & Communications (F-OC)	3
TOTAL CREDIT HOURS	**16**	**TOTAL CREDIT HOURS**	**15**

SECOND YEAR

Fall Semester		Spring Semester	
World Language, if needed, OR General Elective	3	ENG 200 Intro to Literature (F-AH)	3
MFGE 371 Quality Assurance	3	MFGE 370 Computer Numeric Control	3
MFGE 217 Industrial Materials	3	Business Law Elective: MGT 310 **OR** MGT 333	3
Social and Behavioral Sciences (E-SB)	3	ENG 300 Writing in the Disciplines (F-W1)	3
PHYS 231 & 232 Physics/Biophysics I & Lab	4	Arts and Humanities (E-AH)	3
TOTAL CREDIT HOURS	**16**	**TOTAL CREDIT HOURS**	**15**

THIRD YEAR			
Fall Semester		**Spring Semester**	
MFGE 328 Robotics and Machine Vision	3	SEAS 390 Project Management	3
MFGE 356 Systems Design and Operations	3	MFGE 310 Work Design/Ergonomics	3
AGMC 371/372	3	MFGE 343 Automated Systems	3
Communications Elective: COMM 345 or COMM 346 or COMM 349(K-SY) or COMM 362 or MGT 361 or COMM 330 or COMM 348	3	MFGE 342 Manufacturing Operations	3
Connections: Social and Cultural (K-SC)	3	Connections: Local to Global Course (K-LG)	3
General Elective	3		
TOTAL CREDIT HOURS	**18**	**TOTAL CREDIT HOURS**	**15**

FOURTH YEAR			
Fall Semester		**Spring Semester**	
MFGE 430 Technology Management/Supervision/Team Building	3	MFGE 394 Lean and Supply Chain Systems	3
General Elective	3	MFGE 490A Senior Research for MET (or elective if Study Away)	3
SEAS 398 Internship OR UC 400 Faculty-Mentored Undergraduate Research experience	1	General Elective	3
Connections: Systems (K-SY)	3	General Elective	3
General Elective or Study Away substitute for MFGE 490A	5	General Elective	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

Total Credit Hours: 125

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information: **School of Engineering and Applied Sciences**
Website: www.wku.edu/seas
Phone: 270-745-3251
Email: seas@wku.edu
Course Descriptions: http://www.wku.edu/undergraduatecatalog/

BACHELOR of SCIENCE in MANUFACTURING ENGINEERING TECHNOLOGY (#5006) Finish in Four plan
(2021-2022)