

MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Dr. Katie Algeo
Dr. Taha Alyousef
Dr. Doug Harper
Dr. Phil Lienesch
Dr. Jeremy Maddox

Dr. Michelle Jackson
Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian

FROM: Kenneth Crawford, Chair

SUBJECT: Agenda for Thursday, May 2, 2019 4:00 p.m. in OCH 1028

A. OLD BUSINESS:

- I. Consideration of the minutes of the April 4, 2019 meeting.

B. NEW BUSINESS:

| Type of item | Description of Item & Contact Information |
|---------------------|---|
| Consent | Proposal to Revise a Course Title HORT 426, Viticulture, 3 hrs. Contact: Todd William, todd.william@wku.edu , x5969 |
| Consent | Proposal to Revise Course Prerequisites CE 176, CE Freshman Design, 1 hr. Contact: Jason Wilson, Jason.wilson@wku.edu , x2322 |
| Consent | Proposal to Suspend a Course EM 221, UK Statics, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Suspend a Course EM 302, UK Mechanics of Deformable Solids, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Suspend a Course INFO 336, Database and Information Retrieval, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Revise Course Title EM 222, WKU Statics, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Revise Course Title EM 303, WKU Mechanics of Deformable Solids, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Revise Course Title ENGR 490, Senior Seminar, 2 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |
| Consent | Proposal to Revise Course Title ENGR 491, Senior Project, 3 hrs. Contact: Stacy Wilson, stacy.wilson@wku.edu , x6394 |

| | |
|--------|---|
| Action | Proposal to Revise a Program Ref. 417, Minor in Mathematics, 24 hrs Contact: Tom Richmond, tom.richmond@wku.edu , x6219 |
| Action | Proposal to Revise a Program Ref. 5006, Manufacturing Engineering Technology, 58 hrs. Contact: Mark Doggett, mark.doggett@wku.edu , x6951 |
| Action | Proposal to Make Multiple Revisions to a Course AMS 101, Introductory AMS Research, 1-6 hrs. Contact: Mark Doggett, mark.doggett@wku.edu , x6951 |

C. OTHER BUSINESS

I. Ogden College UCC Representative Election

Minutes – OCSE Curriculum Committee

April 4, 2019

Members Present:

Dr. Taha Alyousef
Dr. Jeremy Maddox
Dr. Michelle Jackson
Dr. Andy Mienaltowski
Dr. Les Pesterfield

Dr. Todd Willian
Guest: Dr. Cate Webb
Guest: Dr. Jennifer Gill
Guest: Dr. Michael Galloway
Guest: Dr. Thomas Kingery

FROM: Ken Crawford, Chair

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

OLD BUSINESS:

Willian/Jackson moved to approve of the minutes of the February 28th meeting. Motion passed.

NEW BUSINESS:

Consent Agenda

Proposal to Revise Course Prerequisite: CS 360 was moved to the Action Agenda.

Action Agenda

Agriculture Department

Proposal to Revise Course Credit Hours: AGED 200 was pulled from the Agenda by the department.

Mienaltowski/Willian moved to approve Proposal to Revise Course Credit Hours: AGMC 371. Motion passed unanimously.

Mienaltowski/Jackson moved to approve Proposal to Revise Course Credit Hours: AGMC 372. Motion passed unanimously.

Jackson/Willian moved to bundle and approve Proposals to Create a New Course: ANSC 430 & ANSC 431. Motion passed unanimously with friendly amendment.

School of Engineering & Applied Sciences

Willian/Jackson moved to approve Proposal to Revise Course Prerequisites: CS 360. Motion passed unanimously.

OTHER BUSINESS: None

Meeting Adjourned 4:17pm

Proposal Date: March 23, 2018

**Ogden College of Science and Engineering
Department of Agriculture and Food Science
Proposal to Revise Course Title
(Consent Item)**

Contact Person: Todd Willian, todd.willian@wku.edu, (270) 745-5969

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: HORT 426
- 1.2 Course title: Viticulture
- 1.3 Credit Hours: 3.0

2. Proposed course title: Vineyard Management

3. Proposed abbreviated course title: Vineyard Management
(maximum of 30 characters/spaces)

4. Rationale for the revision of course title: The proposed title is a more accurate descriptor of course content than is the more generic term Viticulture.

5. Proposed term for implementation: next available

6. Dates of prior committee approvals:

Department of Agriculture and Food Science
Ogden College Curriculum Committee
Undergraduate Curriculum Committee
University Senate

May 3, 2018

March 21, 2019

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

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

1. Identification of course:

- 1.1 Course prefix (subject area) and number: CE 176
- 1.2 Course title: CE Freshman Design

2. Current prerequisites:

Prerequisite(s): MATH 117 or higher (may be taken concurrently)

3. Proposed prerequisites:

Prerequisite(s): MATH 136 or higher (may be taken concurrently)

4. Rationale for the revision of prerequisites:

Historically, this course has been a co-requisite with Math 117. Over time, it has become apparent that the co-requisite is not sufficient for the content of this course.

5. Effect on completion of major/minor sequence:

None

6. Proposed term for implementation:

Fall 2019

7. Dates of prior committee approvals:

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Suspend a Course
(Consent Item)**

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

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: EM 221
- 1.2 Course title: UK Statics

2. Rationale for the course suspension: This course was created in support of the joint engineering programs with UK. The joint programs are no longer exist. EM 221 is no longer needed since the course EM 222 Statics is offered every semester.

3. Effect of course suspension on programs or other departments, if known: None

4. Proposed term for implementation: as soon as possible

5. Dates of prior committee approvals:

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Suspend a Course
(Consent Item)**

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

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: EM 302
- 1.2 Course title: UK Mechanics of Deformable Solids

2. Rationale for the course suspension: This course was created in support of the joint engineering programs with UK. The joint programs are no longer exist. EM 302 is no longer needed since the course EM 303 Mechanics of Deformable Solids is offered every semester.

3. Effect of course suspension on programs or other departments, if known: None

4. Proposed term for implementation: as soon as possible

5. Dates of prior committee approvals:

| | |
|--|------------------|
| School of Engineering and Applied Sciences | <u>4/12/2019</u> |
| Ogden College Curriculum Committee | _____ |
| Undergraduate Curriculum Committee | _____ |
| University Senate | _____ |

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Suspend a Course
(Consent Item)**

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

1. Identification of course:

- 1.1 Current course prefix (subject area) and number: INFO 336
- 1.2 Course title: Database and Information Retrieval

2. Rationale for the course suspension: This course has never been taught and there is no plan to teach this course.

3. Effect of course suspension on programs or other departments, if known: None

4. Proposed term for implementation: as soon as possible

5. Dates of prior committee approvals:

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Revise Course Title
(Consent Item)**

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

1. **Identification of proposed course:**
 - 1.1 Course prefix (subject area) and number: EM 222
 - 1.2 Course title: WKU Statics
 - 1.3 Credit Hours: 3
2. **Proposed course title:** Statics
3. **Proposed abbreviated course title:** Statics
(maximum of 30 characters/spaces)
4. **Rationale for the revision of course title:** This original title was used due the joint engineering programs with UK. The joint programs are no longer offered and thus the name of the institution does not need to be in the title.
5. **Proposed term for implementation:** as soon as possible
6. **Dates of prior committee approvals:**

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Revise Course Title
(Consent Item)**

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

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: EM 303
- 1.2 Course title: WKU Mechanics of Deformable Solids
- 1.3 Credit Hours: 3

2. Proposed course title: Mechanics of Deformable Solids

3. Proposed abbreviated course title: Mechanics of Deformable Solids
(maximum of 30 characters/spaces)

4. Rationale for the revision of course title: This original title was used due the joint engineering programs with UK. The joint programs are no longer offered and thus the name of the institution does not need to be in the title.

5. Proposed term for implementation: as soon as possible

6. Dates of prior committee approvals:

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Revise Course Title
(Consent Item)**

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

- 1. Identification of proposed course:**
 - 1.1 Course prefix (subject area) and number: ENGR 490
 - 1.2 Course title: Senior Seminar
 - 1.3 Credit Hours: 2

- 2. Proposed course title:** Senior Project I

- 3. Proposed abbreviated course title:** Senior Project I
(maximum of 30 characters/spaces)

- 4. Rationale for the revision of course title:** This course is the first course in the engineering capstone design sequence. The new title is a better reflection of the course content.

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

- 6. Dates of prior committee approvals:**

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal Date: 3/29/19

**Ogden College of Science & Engineering
School of Engineering & Applied Sciences
Proposal to Revise Course Title
(Consent Item)**

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

- 1. Identification of proposed course:**
 - 1.1 Course prefix (subject area) and number: ENGR 491
 - 1.2 Course title: Senior Project
 - 1.3 Credit Hours: 3

- 2. Proposed course title:** Senior Project II

- 3. Proposed abbreviated course title:** Senior Project II
(maximum of 30 characters/spaces)

- 4. Rationale for the revision of course title:** This course is the second course in the engineering capstone design sequence. The new title is a better reflection of the course content.

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

- 6. Dates of prior committee approvals:**

School of Engineering and Applied Sciences

4/12/2019

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

Proposal to Revise a program: Minor in Mathematics
Ogden College of Science & Engineering
Department/Unit: Mathematics

Section 1: Proponent Contact Information

1.1 Name/Title: Tom Richmond
1.2 Email address: tom.richmond@wku.edu
1.3 Phone #: 745-6219

Section 2: Program Information

- 2.1 **Classification of Instructional Program (CIP) reference number:** 417
- 2.2 **Current Program title:** Minor in Mathematics (Minor for Employment in Industry and/or Graduate Studies in Mathematics)
- 2.3 **Current total number of credits required in the program:** 24

Section 3: Proposed program revisions and rationales

3.1 **First proposed revision:** MATH 302 will be added to the list of MATH courses which do not count toward the Minor in Mathematics (for Employment in Industry and/or Graduate Studies in Mathematics). MATH 302 Introduction to Advanced Mathematics for Middle Grades Teachers is targeted for middle grades teachers.

Section 4: Consultations: MATH 302 is a relatively new course which is clearly designated as a course for middle grades teachers, so the impact will be only within the Department of Mathematics.

Section 5: Proposed term for implementation: Fall 2020.

Section 6: Approval Flow Dates:

Department of Mathematics: April 12, 2019
Ogden College Curriculum Committee:
Undergraduate Curriculum Committee:
Professional Education Committee:
University Senate:

7.1 Current Minor in Mathematics (Minor for Employment in Industry and/or Graduate Studies in Mathematics):

A minor in mathematics requires a minimum of 24 semester hours. In addition to the foundational sequence (MATH 136, MATH 137, MATH 237, and either MATH 307 or MATH 370), the student is required to select at least nine hours from MATH 3XX*, MATH 4XX*, or STAT 301**.

*Students may not count MATH 304, MATH 308, MATH 403, MATH 411, MATH 413, MATH 421, or MATH 490 toward the minor. MATH 398 may count toward the minor only if the student completes MATH 498.

**Students may not count both MATH 382 and STAT 301 in the minor.

7.2 Proposed Minor in Mathematics (Minor for Employment in Industry and/or Graduate Studies in Mathematics):

A minor in mathematics requires a minimum of 24 semester hours. In addition to the foundational sequence (MATH 136, MATH 137, MATH 237, and either MATH 307 or MATH 370), the student is required to select at least nine hours from MATH 3XX*, MATH 4XX*, or STAT 301**.

*Students may not count MATH 302, MATH 304, MATH 308, MATH 403, MATH 411, MATH 413, MATH 421, or MATH 490 toward the minor. MATH 398 may count toward the minor only if the student completes MATH 498.

**Students may not count both MATH 382 and STAT 301 in the minor.

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

Section 1: Proponent Contact Information

- 1.1 Mark Doggett, Professor
- 1.2 Email address: mark.doggett@wku.edu
- 1.3 Phone # 270.745.6951

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: 58

Section 3: Proposed program revisions and rationales

- 3.1 Require majors to take CHEM 105/106 or CHEM 120/121 as part of the Colonnade requirements. Presently, majors may select any E-NS course to fulfill the Colonnade requirement. Current majors are required to take laboratory-based courses in the program (AMS 217 Industrial Materials and AMS 227 Introduction to Manufacturing Methods) where knowledge of measurements, properties and phases of matter, chemical structure, chemical bonding, and substance composition are needed.
- 3.2 Require majors to take PHYS 231/232. The majority of MET students are hired in industry as manufacturing process engineers or manufacturing managers. Knowledge of velocity, momentum, tension, friction, fluids, heat transfer, and vibration is fundamental for efficient manufacturing process design. It is anticipated this course will be approved for Colonnade next year. However, until then, it will be an additional requirement. Unfortunately, currently approved Colonnade physics courses cover only relativity theory, motion, light, sound, or require Calculus II.

Additional rationale: The addition of chemistry and physics will better align the program for future ABET accreditation.

- 3.3 Require majors to take AGMC 371/372. This lecture-lab (3 credit hours total) combination introduces students to welding technology and basic metallurgy. This technical skill set is part of the basic manufacturing processes listed by the Society of Manufacturing Engineers as fundamental knowledge set in effective manufacturing engineering programs. Future students will be better-equipped to support industry in this regard.

The above changes increase the program requirements from 58 to 65 and will reduce the number of program electives available to majors from 23 to 14 or 15 depending on the Chemistry course chosen by the student.

- 3.4** Add ECON 202 and 203 as selective courses for the major. Adding micro or macro economics will add a value choice for students, particularly those wishing to minor in Business
- 3.5** Remove BUS 214C and MGT 200 from the selective lists for the major. Both these courses, while having value, have created an unanticipated side effect of Gen Ed Certified students accumulating too many lower division hours. Removal of these courses from the selective will resolve this problem.
- 3.6.** Remove the Concentration section designation as the program no longer has concentrations. The courses presently listed in this section are all technical skill courses and can be listed in the Technical section to reduce confusion.

Section 4: Consultations

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

The department chairs of both Chemistry and Physics were contacted on 04.01.2019. Estimated initial impact on these programs is approximately 5-10 students per year and 20 per year thereafter.

The department chair of Agriculture was contacted on 04.10.2019. Estimated initial impact on the program is approximately 5-10 students per year and 20 per year thereafter.

The department chair of Economics was contacted on 04.04.2019. Estimated impact is 4-5 students per year.

Section 5: Proposed term for implementation: Fall 2020

Section 6: Approval Flow Dates:

SEAS: **4/12/2019**
Odgen College Curriculum Committee:
Undergraduate Curriculum Committee:
University Senate:

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

7.1 Current Program Requirement: 58 hours

| | | |
|-----------------------------------|--|---------------|
| Technical Core: 19 hrs | | 19 hrs |
| Finance Selective | ACCT 200 or MKT 220 or FIN 161(E-SB) | 3 |
| Basic Electricity | AMS 120 | 3 |
| Architectural Drafting | AMS 205 or AMS 163 | 3 |
| Industrial Statistics | AMS 271 | 3 |
| Internship I | AMS 398 or UC 400 | 1 |
| Senior Research | AMS 490E | 3 |
| Robotics and Machine Vision | AMS 328 | 3 |
| Management Core: | | 24 hrs |
| Work Design/Ergonomics | AMS 310 | 3 |
| Systems Design and Operation | 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 |
| Communications Selective | COMM 345 or BUS 214C or COMM 346 or COMM 349 (K-SY) or COMM 362 or MGT 361 | 3 |
| Business Law Selective | MGT 301 or MGT 200 or MGT 333 | 3 |
| Concentration: | | 15 |
| Industrial Materials | AMS 217 | 3 |
| Manufacturing Methods | AMS 227 | 3 |
| Manufacturing Operations | AMS 342 | 3 |
| Automated Systems | AMS 343 | 3 |
| Computer Numeric Control | AMS 370 | 3 |
| Program Electives | | 23 |
| Colonnade (Old) | | 39 |
| | F-WC ENG 100 | 3 |
| | F-WC ENG 300 | 3 |
| | F-AH ENG 200 | 3 |
| | F- OC COMM 145 | 3 |
| | F-QR MATH 117 | 3 |
| | F-SB HIST 101 or HIST 102 | 3 |
| | E-AH SELECT | 3 |
| | E-SB SELECT | 3 |
| | E-NS/SL SELECT | 6 |
| | K-SC SELECT | 3 |
| | K-LG SELECT | 3 |
| | K-SY SELECT | 3 |
| | | |
| Program Grand Total Hours: | | 120 |

7.2 Proposed Program Requirement: 65 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 | AMS 120 | 3 |
| CAD and Drafting | AMS 205 or AMS 163 | 3 |
| Industrial Statistics | AMS 271 | 3 |
| Internship I | AMS 398 or UC 400 | 1 |
| Senior Research | AMS 490E | 3 |
| Robotics and Machine Vision | AMS 328 | 3 |
| Industrial Materials | AMS 217 | 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 |
| Work Design/Ergonomics | AMS 310 | 3 |
| Systems Design and Operation | 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 |
| Communications Selective | COMM 345 or BUS 214C or COMM 346 or COMM 349(K-SY) or COMM 362 or MGT 361 | 3 |
| Business Law Selective | MGT 301 or MGT 200 or MGT 333 | 3 |
| Program Electives | | 14 or 15 |
| Additional Program Requirement: | | 4 hrs |
| Biophysics | PHYS 231/232(4 cr) | 4 |
| Colonnade (New) | | 40 or 41 |
| F-WC | ENG 100 | 3 |
| F-WC | ENG 300 | 3 |
| F-AH | ENG 200 | 3 |
| F- OC | COMM 145 | 3 |
| F-QR | MATH 117 | 3 |
| F-SB | HIST 101 or HIST 102 | 3 |
| E-AH | SELECT | 3 |
| E-SB | SELECT | 3 |
| E-NS/SL | CHEM 105/106(4 cr) OR 120/121(5 cr) | 4 or 5 |
| E-NS | SELECT | 3 |
| K-SC | SELECT | 3 |
| K-LG | SELECT | 3 |
| K-SY | SELECT | 3 |
| | | |
| Program Grand Total Hours: | | 120 |

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

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

1. Identification of course:

- 1.1 Course prefix (subject area) and number: AMS 101
- 1.2 Course title: Introductory AMS Research

2. Revise course title:

- 2.1 Current course title: Introductory AMS Research
- 2.2 Proposed course title: Introductory SEAS Research
- 2.3 Proposed abbreviated title: Intro AMS Research
- 2.4 Rationale for revision of course title: On 7/1/17, the former Departments of Architectural and Manufacturing Sciences (AMS), Computer Science, and Engineering were merged to form the School of Engineering and Applied Sciences. The AMS department no longer exists.

3. Revise course number:

- 3.1 Current course number: AMS 101
- 3.2 Proposed course number: SEAS 101
- 3.3 Rationale for revision of course number: See 2.4

4. Revise course prerequisites:

- 4.1 Current prerequisites: (indicate which)
Pre-requisites: Enrollment in a program of study within the Architectural and Manufacturing Sciences Department or consent of instructor
- 4.2 Proposed prerequisites:
Pre-requisites: Enrollment in a program of study within the School of Engineering and Applied Sciences or consent of instructor
- 4.3 Rationale for revision of course prerequisites:
On 7/1/17, the former Departments of Architectural and Manufacturing Sciences (AMS), Computer Science, and Engineering were merged to form the School of Engineering and Applied Sciences. The AMS department no longer exists.
- 4.4 Effect on completion of major/minor sequence: There is no effect on a major or minor since this course is not required.

5. Revise course catalog listing:

- 5.1 Current course catalog listing: AMS 101
- 5.2 Proposed course catalog listing: SEAS 101
- 5.3 Rationale for revision of course catalog listing:

The AMS department no longer exists.

- 6. **Revise course credit hours:**
 - 6.1 Current course credit hours:
 - 6.2 Proposed course credit hours:
 - 6.3 Rationale for revision of course credit hours:

- 7. **Revise schedule type:**
 - 7.1 Current schedule type:
 - 7.2 Proposed schedule type:
 - 7.3 Rationale for revision of schedule type:

- 8. **Revise grade type:**
 - 8.1 Current grade type:
 - 8.2 Proposed grade type:
 - 8.3 Rationale for revision of grade type:

- 10. **Proposed term for implementation:** as soon as possible

- 11. **Dates of prior committee approvals:**

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

4/12/2019
