MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Dr. Katie Algeo

Dr. Melanie Autin

Dr. Doug Harper

Dr. Phil Lienesch

Dr. Jeremy Maddox

Dr. Andy Mienaltowski

Dr. Les Pesterfield

Dr. Huanjing Wang

Dr. Todd Willian

FROM: Kenneth Crawford, Chair

SUBJECT: Agenda for Thursday, November 2, 2017 4:00 p.m. in COHH 4123

A. OLD BUSINESS:
I.   Consideration of the minutes of the October 3, 2017 meeting.

B. NEW BUSINESS:

Consent Items

Department of Geography & Geology
I. Proposal to Revise Course Prerequisites/Corequisites
   a. GEOG 300, Writing in the Geosciences, 3 hrs.

School of Engineering & Applied Sciences
I. Proposal to Revise a Course Catalog Listing
   a. CS 382, Programming Languages, 3 hrs.

Action Items

Department of Agriculture
I. Proposal to Revise a Program
   a. Ref. 205, Associate Degree in Agricultural Technology Management - General Agriculture Option, 60 hrs.
   b. Ref. 205, Associate Degree in Agricultural Technology Management - Turf and Golf Course Management Option, 60 hrs.
   c. Ref. 508, Major in Agriculture – Agribusiness concentration, 50 hrs.
   d. Ref. 508, Major in Agriculture – Agronomy Plant Science concentration, 52 hrs.

School of Engineering and Applied Sciences
I. Proposal to Make Multiple Revisions to a Course
   a. CS 339 Computer Science III, 3 hrs.
II. Proposal to Revise a Program
   a. Ref. 343, Minor in Construction Management, 21/24 hrs.
   b. Ref. 575, Technology Management, 63 hrs.

C. OTHER BUSINESS

Members Present:

Dr. Katie Algeo   Dr. Andy Mienaltowski

Dr. Melanie Autin   Dr. Les Pesterfield

Dr. Phil Lienesch   Dr. Huanjing Wang

Dr. Jeremy Maddox

Guest Present:

Dr. Sigrid Jacobshagen

FROM: Ken Crawford, Chair – The meeting was called to order at 4:00pm.

OLD BUSINESS:

Maddox/Autin moved for approval of the minutes of the September 7, 2017 meeting. Motion passed.

NEW BUSINESS:

Consent Agenda

Maddox/Autin moved to approve the Department of Agriculture consent items. Motion passed with a friendly amendment.

Wang/Lienesch moved to move the Department of Geography & Geology consent agenda to the action agenda. Proposal to Revise Course Prequisites/Corequisites: GEOG 300: Writing in the Geosciences was tabled.

Action Agenda

Department of Biology

Autin/Lienesch moved to approve Proposal to Create a New Course: BIOL 388, Contemporary Issues in Biotechnology. Motion passed with two abstentions.

Maddox/Mienaltowski moved to approve the Proposal to Revise a Program: Ref. 714, Major in Investigative Biotechnology. Motion passed.

Department of Chemistry

Autin/Lienesch moved to approve Proposal to Make Multiple Revisions to a Course: CHEM 470, Chemistry/Middle School. Motion passed.

Pesterfield/Autin moved to approve Proposal to Revise a Program: Ref. 623, Major in Chemistry. Motion passed.

Department of Mathematics

Mienaltowski/Wang moved to approve Proposal to Create a New Course: STAT 440, Categorical Data Analysis. Motion passed.

Mienaltowski/Wang moved to approve Proposal to Revise a Program: Ref. 313, Minor in Applied Statistics. Motion passed.

OTHER BUSINESS:

Autin/Maddox moved to approve the second reading of the update to the Curriculum Committee, OSCE, Standing Rules. Motion carried.

Adjourned 4:27pm

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

Contact Person: Pat Kambesis, pat.kambesis@wku.edu, 5-5984

1. **Identification of course:**
   1.1   Course prefix (subject area) and number: GEOG 300
   1.2   Course title: Writing in the Geosciences

2. **Current prerequisites:**
   GEOG 103 OR GEOL 103 AND GEOG 110.

3. **Proposed prerequisites/special requirements:**
   GEOG 110 **AND ENG 100** AND ONE OF THE FOLLOWING: GEOG 103, GEOL
   103, **GEOL 111, OR METR 121.**

4. **Rationale for the revision of prerequisites/corequisites/special requirements:** This course is
   required for all majors in the Department of Geography and Geology, so students should have
   adequate lower-division geoscience Colonnade course preparation before taking this upper-level
   course. Writing in the Geosciences requires a basic understanding of geoscience principles, in
   addition to the fundamentals of grammar and syntax taught in ENG 100.

5. **Effect on completion of major/minor sequence:** No effect on the sequence, as these are all
   required courses in the majors anyway.

6. **Proposed term for implementation:** 201830

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

Department of Geography and Geology	October 13, 2017
Ogden College Curriculum Committee	
Colonnade Committee	
Undergraduate Curriculum Committee	
University Senate	

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

Contact Person: Huanjing Wang, huanjing.wang@wku.edu, 745-2672

1. **Identification of course:**
    1.1 Course prefix (subject area) and number: CS 382
    1.2 Course title: Programming Languages

2. **Current course catalog listing:**
    A study of principles and common features of imperative and functional programming languages. Topics include syntax, semantics, names, binding, type checking, scope, overloading, and data abstraction.

3. **Proposed course catalog listing:**
    (aim for 25 words or less)
    A study of principles and common features of programming languages. Topics include syntax, semantics, binding, scope, overloading, finite automata, formal languages, etc.

4. **Rationale for revision of the course catalog listing:**
    Finite automata and formal languages are removed from CS 339. CS 382 is a better course to cover these topics since they tie in well with the overall topics of the course.

5. **Proposed term for implementation:**
    Fall 2018

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

    School of Engineering and Applied Science   **September 29, 2017**

    Ogden College Curriculum Committee   _____

    Undergraduate Curriculum Committee   _____

    University Senate   _____

Ogden College of Science and Engineering
Department of Agriculture
Proposal to Revise a Program
(Action Item)

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

1.   **Identification of program:**
   1.1   Current program reference number: 205
   1.2   Current program title: Associate Degree in Agricultural Technology and Management – General Agriculture Option
   1.3   Credit hours: 60

2.   **Identification of the proposed program changes:**
   - MATH 116 as a required support course will be changed to: MATH 115 or MATH 116

3.   **Detailed program description:**

Current	Proposed
Required Agriculture Courses (28 hours): AGRO 110 (3) ANSC 140 (3) AGMC 170/171 (3) AGEC 360 (3) AGRI 397 (1) AGR0 350 (3) Additional 12 hours of electives in Agriculture selected by student and advisor. Electives can come from any of the following areas: Agriculture Economics, Agriculture, Horticulture, Agronomy, and/or Agriculture Mechanics.	Required Agriculture Courses (28 hours): AGRO 110 (3) ANSC 140 (3) AGMC 170/171 (3) AGEC 360 (3) AGRI 397 (1) AGR0 350 (3) Additional 12 hours of electives in Agriculture selected by student and advisor. Electives can come from any of the following areas: Agriculture Economics, Agriculture, Horticulture, Agronomy, and/or Agriculture Mechanics.
Required General Education Courses (23 hours): College Composition (WC) ENG 100 (3) COMM 145 (3) Arts & Humanities (AH) Arts/Humanities Course (3) Quantitative Reasoning (QR) Natural & Physical Sciences MATH 116 (3) CHEM 105/106 (4) BIOL 120/121 (4)	Required General Education Courses (23 hours): College Composition (WC) ENG 100 (3) COMM 145 (3) Arts & Humanities (AH) Arts/Humanities Course (3) Quantitative Reasoning (QR) Natural & Physical Sciences **MATH 115 or MATH 116 (3)** CHEM 105/106 (4) BIOL 120/121 (4)
Electives to complete the total of 60 hours required for the degree.	Electives to complete the total of 60 hours required for the degree.

4. **Rationale for the proposed program change:** Requisite mathematics skills necessary for this program are covered in either MATH 115 or MATH 116.

5. **Proposed term for implementation:** Fall 2018

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

Department of Agriculture	October 26, 2017
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Ogden College of Science and Engineering
Department of Agriculture
Proposal to Revise a Program
(Action Item)

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

1.   **Identification of program:**
       1.1   Current program reference number: 205
       1.2   Current program title: Associate Degree in Agricultural Technology and Management –
              Turf and Golf Course Management Option
       1.3   Credit hours: 60

2.   **Identification of the proposed program changes:** MATH 116 as a required support course will
      be changed to: MATH 115 or MATH 116

3.   **Detailed program description:**

Current	Proposed
I. Required General Education Courses – 23 Hours College Composition (WC) ENG 100 (3) COMM 145 (3) Arts & Humanities (AH) AH course (3) Social & Behavioral Sciences (SB) SB course (3) Quantitative Reasoning (QR) Natural and Physical Sciences ~~MATH 116 (3)~~ CHEM 105/106 (4) BIOL 120/121 (4)	I. Required General Education Courses – 23 Hours College Composition (WC) ENG 100 (3) COMM 145 (3) Arts & Humanities (AH) AH course (3) Social & Behavioral Sciences (SB) SB course (3) Quantitative Reasoning (QR) Natural and Physical Sciences **MATH 115 or MATH 116 (3)** CHEM 105/106 (4) BIOL 120/121 (4)
II. Required Agriculture Courses – 27 Hours AGRO 110 (3) AGRO 350 (3) AGMC 170/171 (3) AGMC 172/173 (3) AGMC 270/271 (3) AGMC 272/273 (3) AGMC 371/372 (3) AGMC 392/393 (3)	II. Required Agriculture Courses – 27 Hours AGRO 110 (3) AGRO 350 (3) AGMC 170/171 (3) AGMC 172/173 (3) AGMC 270/271 (3) AGMC 272/273 (3) AGMC 371/372 (3) AGMC 392/393 (3)

	HORT 313 (3)		HORT 313 (3)
III.	Agriculture Electives – 10 Hours Electives to complete 60 hours can come from any of the following areas: AGEC, AGRI, HORT, AGRO and/or AGMC	III.	Agriculture Electives – 10 Hours Electives to complete 60 hours can come from any of the following areas: AGEC, AGRI, HORT, AGRO and/or AGMC

4. **Rationale for the proposed program change:** Requisite mathematics skills necessary for this program are covered in either MATH 115 or MATH 116.

5. **Proposed term for implementation:** Fall 2018

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

Department of Agriculture	October 26, 2017
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Ogden College of Science & Engineering
Department of Agriculture
Proposal to Revise a Program
(Action Item)

Contact Person: Dr. Dominique Gumirakiza, dominique.gumirakiza@wku.edu, (270) 745-5959

1. **Identification of program:**
    1.1   Current program reference number: 508
    1.2   Current program title: Major in Agriculture – Agribusiness concentration
    1.3   Credit hours: 50

2. **Identification of the proposed program changes:**
    - In subcategory 2, replace ACCT 200 with AGEC 261
    - In subcategory 2, change Agri-Business to Agribusiness
    - In subcategory 3, add AGEC 471, AGEC 391, and AGEC 475.

3. **Detailed program description:**

Old iCap	Revisions
1. Take the following required basic agriculture courses: Needs: 29.00 Hours Select from: 　AGRO 110 　AGMC 170 　AGMC 171 　AGMC 176 　AGRI 175 　ANSC 140 　AGEC 160 　AGRI 291 or AGRI 491 　AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326 　AGRO 350 　AGRI 397 　AGRI 398 　AGRI 494	1. Take the following required agriculture courses: Select 29 hours from: 　AGRO 110 　AGMC 170 　AGMC 171 　AGMC 176 　AGRI 175 　ANSC 140 　AGEC 160 　AGRI 291 or AGRI 491 　AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326 　AGRO 350 　AGRI 397 　AGRI 398 　AGRI 494

2. Take the following courses for the Agri-Business concentration Needs: 18.00 Hours Select From: ~~ACCT 200~~ MGT 210 MKT 220 AGEC 361 AGEC 362 AGEC 463	2. The following courses (18 hours) are required: **AGEC 261** MGT 210 MKT 220 AGEC 361 AGEC 362 AGEC 463
3. Choose one of the following courses: Needs: 3.00 Hours Select from: AGEC 366 AGRI 369 AGEC 460 AGEC 461 AGEC 468	3. Select one of the following courses (3 hours): AGEC 366 AGRI 369 AGEC 460 AGEC 461 AGEC 468 **AGEC 471** **AGEC 391** **AGEC 475**

4. **Rationale for the proposed program change:**
   - AGEC 261 (Agricultural Accounting) is taught following the Financial Guidelines for Agricultural Producers. The Farm Financial Standards Council developed these guidelines specifically for agricultural producers. Students in AGEC 261 learn accounting techniques to analyze farm/ranch transactions and accounts, make journal entries, posting, and make financial statements that better reflect farm/ranch financial transactions. Therefore, it is a better fit for agriculture students than is ACCT 200.
   - Agribusiness is a word that does not require a hyphen.
   - AGEC 471 (Agribusiness Entrepreneurial System) was recently created to give students an opportunity to enhance their entrepreneurship skills in the agriculture industry. Two other appropriate courses, AGEC 391 (Survey of Commodities Futures and Options) and AGEC 475 (Special Topics in Agriculture Economics) are in the catalogue of courses, but not currently listed in the iCap system.

5. **Proposed term for implementation and special provisions (if applicable): Fall 2018**

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

   Department of Agriculture   October 26, 2017 _____

   Ogden College Curriculum Committee   _____

   Undergraduate Curriculum Committee   _____

   University Senate   _____

Ogden College of Science and Engineering
Department of Agriculture
Proposal to Revise a Program
(Action Item)

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

1. **Identification of program:**
    1.1   Current program reference number: 508
    1.2   Current program title: Major in Agriculture, Agronomy-Plant Science Concentration
    1.3   Credit hours: 52

2. **Identification of the proposed program changes:**
    - deletion of AGEC 391 from subcategory 2
    - addition of AGRI 355 to subcategory 2

3. **Detailed program description:**

Current	Proposed
1. Take the following required basic agriculture courses: Select From: AGRO 110 ANSC 140 AGEC 160 AGMC 170/171 AGRI 175 AGMC 176 AGRI 291 or AGRI 491 AGRO 320 or AGRO 350 or ANSC 345 or AGMC 326 AGRI 397 AGRI 398 AGRI 494 Needs: 29 hours	1. Take the following required basic agriculture courses: Select From: AGRO 110 (3 credit hours) ANSC 140 (3) AGEC 160 (3) AGMC 170/171 (3) AGRI 175 (1) AGMC 176 (2) AGRI 291 or AGRI 491(3) AGRO 320 or AGRO 350 or ANSC 345 or AGMC 326 (3) AGRI 397 (1) AGRI 398 (1) AGRI 494 (3) Needs: 29 hours
2. Select 18 credit hours from the following courses for the Agronomy- Plant Science concentration: AGRO 310 AGRO 352 AGEC 361 AGEC 391 AGRO 409/410 AGRO 414	2. Select 18 credit hours from the following courses for the Agronomy- Plant Science concentration: AGRO 310 (3) AGRO 352 (3) AGEC 361 (3) **AGRI 355 (3)** AGRO 409/410 (3) AGRO 414 (3)

AGRO 418 AGRO 420/421 AGRO 422	AGRO 418 (3) AGRO 420/421 (3) AGRO 422 (3)
3. Take 3 credit hours from the following courses. AGRI 315 AGRO 452 AGRO 454 AGRO 457/458 AGRI 493	3. Select 3 credit hours from the following courses: AGRI 315 (3) AGRO 452 (3) AGRO 454 (3) AGRO 457/458 (3) AGRI 493 (3)
4. Take the following required laboratory courses: AGRO 111 AGRO 351	4. Take the following required laboratory courses: AGRO 111 (1) AGRO 351 (1)

4.　　**Rationale for the proposed program change:**

- AGEC 391 has not been offered since 2012 and probably will not be offered by current agriculture faculty.
- AGRI 355 is a new course offering providing timely and pertinent information about Agriculture Biotechnology, much of which is focused in crop sciences.

5.　　**Proposed term for implementation and special provisions (if applicable):** Fall 2018.

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

Department of Agriculture　　　　　　　　　　　October 26, 2017 _____

Ogden College Curriculum Committee　　　　　　_____

Undergraduate Curriculum Committee　　　　　　_____

University Senate　　　　　　　　　　　　　　_____

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

Contact Person: Huanjing Wang, huanjing.wang@wku.edu, 745-2672

1. **Identification of course:**
   1.1 Current course prefix (subject area) and number: CS 339
   1.2 Course title: Computer Science III

2. **Revise course title: NA**
   2.1 Current course title:
   2.2 Proposed course title:
   2.3 Proposed abbreviated title:
   2.4 Rationale for revision of course title:

3. **Revise course number: NA**
   3.1 Current course number:
   3.2 Proposed course number:
   3.3 Rationale for revision of course number:

4. **Revise course prerequisites:**
   4.1 Current prerequisites:
   A grade of "C" or better in CS 221, PHIL 215, and MATH 136

   4.2 Proposed prerequisites:
   A grade of "C" or better in CS 221 and MATH 136

   4.3 Rationale for revision of course prerequisites:
   A small percentage of the topics in PHIL 215 is needed as prerequisite of CS 339. These topics will be covered in CS 339 in the future, due to an internal restructuring to focus on theoretical support for computer science.

   4.4 Effect on completion of major/minor sequence:
   No

5. **Revise course catalog listing:**
   5.1 Current course catalog listing:
   Finite and discrete structures, including basic proof techniques, algorithm analysis, graph concepts and algorithms, and introductions to finite state machine and formal languages, with their applications in computer science.

   5.2 Proposed course catalog listing:

Finite and discrete structures, including basic proof techniques, algorithm analysis, graph concepts and algorithms, with their applications in computer science.

    5.3   Rationale for revision of course catalog listing:
Due to internal rearrangement of course content, more time is needed for basic proof techniques in CS 339. Finite state machine and formal languages will be covered in CS 382.

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

7.   Revise grade type: NA
    7.1   Current grade type:
    7.2   Proposed grade type:
    7.3   Rationale for revision of grade type:

8.   Proposed term for implementation:
Fall 2018

9.   Dates of prior committee approvals:

School of Engineering and Applied Sciences	**September 29, 2017**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Ogden College of Science and Engineering
School of Engineering and Applied Sciences
Proposal to Revise a Program
(Action Item)

Contact Person: Bryan Reaka, bryan.reaka@wku.edu, 270-745-7032

1. **Identification of program:**
   1.1 Current program reference number: 343
   1.2 Current program title: Minor in Construction Management
   1.3 Credit hours: 21/24

2. **Identification of the proposed Minor changes:**

   Changes to Minor in Construction Management Major
   - Add CM 250 to the minor
   - Remove CE 360/ 361
   - Instead of Technical Electives options (choosing 7 hours from) AMS 390, CM 426, have options of Technical Selective from AMS 163 or AMS 251 or AMS 305 or AMS 325 or AMS 390 or AMS 394 or AMS 430 or MGT 301 or MGT 314 or MGT 333 or CM 400C or CE 316 or CE 370/371 or ENGR 400
   - Decrease number of hours from 21/24 to 20/21

3. **Detailed program description:**

MINOR IN CONSTRUCTION MANAGEMENT (OLD)		21/24			MINOR IN CONSTRUCTION MANAGEMENT (New)	20 / 21
AMS 261	Construction Methods & Materials	3		AMS 261	Construction Methods & Materials	3
AMS 262	Construction Laboratory	1		AMS 262	Construction Laboratory	1
CE 303	Construction Management	3		CE 303	Construction Management	3
CE 304	Construction Management Lab	1		CE 304	Construction Management Lab	1
				CM 250	**Contract Documents**	**3**
CM 363 or ~~CE 360/361~~	Construction Estimating & Bidding or ~~Estimating Scheduling and Bidding/Estimating Lab~~	3/6		CM 363	Construction Estimating & Bidding	3
CM 462	Construction Scheduling	3		CM 462	Construction Scheduling	3
	Technical Electives				**Technical Selective**	
Choose from AMS 390, CE 370/371, CM 400, ~~CM 426~~	Project Management, Construction Materials, Construction Materials Lab, Construction Administration, ~~Construction Law~~	7		**AMS 163 or** **AMS 251 or** **AMS 305 or** **AMS 325 or** AMS 390 or **AMS 394 or** **AMS 430 or** **MGT 301 or** **MGT 314 or** **MGT 333 or** CM 400 or **CE 316 or** or CE 370/ 371 or ENGR 400	**Architectural Drafting** or **Introduction to BIM** or **Building Codes** or **Survey of Building Systems** or Project Management or **Lean Systems** or **Tech Mgt/ Supervision** or **Business Law** or **Operations Management** or **MGMT of Nonprofit** or Construction Administration or **Equipment & Methods** or Construction Materials and Lab or **Princ. of Systems Engineering**	3 / 4

4. **Rationale for the proposed program change:**

Changes to Construction Management Major

- Add CM 250 to the minor. This is a foundational course in understanding the Construction Management industry and required prerequisite for other CM courses in the minor.
- Remove CE 360/361. This course is no longer offered.
- Instead of Technical Electives options (choosing 7 hours from) AMS 390, CE 370, 371, CM 400, CM 426, have options of Technical Selective from AMS 163 or AMS 251 or AMS 305 or AMS 325 or AMS 390 or AMS 394 or AMS 430 or MGT 301 or MGT 314 or MGT 333 or CM 400C or CE 316 or CE 370/371 or ENGR 400. The course CM 426 that was listed in Technical Electives is no longer offered. The addition of the Technical Selective course will allow the student to better focus on an area that may interest the individual student.
- Decrease number of hours from 21/24 to 20/21. Decrease reflects the removal of prescribed course in the minor.

5. **Effective Catalog Year:** 2018-2019

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

School of Engineering and Applied Sciences	September 15, 2017
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Ogden College of Science and Engineering
Architectural and Manufacturing Sciences
Proposal to Revise A Program
(Action Item)

Contact Person: Dr. Daniel Jackson, dan.jackson@wku.edu, 270 754-5955

1.   **Identification of program:**
      1.1   Current program reference number: 575
      1.2   Current program title: Technology Management
      1.3   Credit hours: 63

2.   **Identification of the proposed program changes:**
      - Reduce number of hours under Upper Division Adviser Approved Electives in the major from 12 hours to 9 hours.
      - Include AMS 342 in the major requirements.

3.   **Detailed program description:**

OLD (63 hours) Note: includes 24 hours of technical transfer credit.	NEW (63 hours) Note: includes 24 hours of technical transfer credit.
AMS 271	AMS 271
AMS 310	AMS 310
	AMS 342
AMS 356	AMS 356
AMS 371	AMS 371
AMS 390	AMS 390
AMS 394	AMS 394
AMS 396	AMS 396
AMS 430	AMS 430
AMS 490F	AMS 490F
~~Electives 12 hours~~	**Electives 9 hours**

4.   **Rationale for the proposed program change:**
      - Reduce number of hours under Upper Division Adviser Approved Electives in the major from 12 hours to 9 hours. This is due to the addition of AMS 342 to the required curriculum for the Technology Management program. To accommodate AMS 342, faculty determined a reduction in electives would be preferable to increasing total major hours

- Include AMS 342 in the major requirements. Faculty agree many students are leaving the Technology Management program unfamiliar with manufacturing processes. AMS 342 familiarizes students with these topics and provides for a more thorough and well rounded education in Technology Management..

5. **Proposed term for implementation and special provisions (if applicable):**
2018-2019

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

Architectural and Manufacturing Sciences	**3-3-2017**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	