MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Dr. Jack Rudolph	Dr. James Gary	Dr. Keith Andrew
Dr. Martin Stone	Dr. Huanjing Wang	Dr. Edward Kintzel
Dr. Greg Arbuckle	Dr. Julie Ellis	Dr. Kelly Madole
Dr. Mark Revels	Dr. Warren Campbell	Dr. Steve Haggbloom
Dr. Bruce Schulte	Dr. David Keeling	Dr. Les Pesterfield
Dr. Phil Lienesch	Dr. Xingang Fan	
Dr. Cathleen Webb	Dr. Bruce Kessler	
Dr. Hemali Rathnayake	Dr. Richard Schugart	

FROM: Kenneth Crawford, Chair

SUBJECT: Agenda for Thursday, November 6, 2014, 4:00 p.m. in COHH 4123

A. OLD BUSINESS:

I. Consideration of the minutes of the September 30, 2014 meeting.

B. NEW BUSINESS:

Consent Items

Department of Architectural Manufacturing Sciences

I. Proposal to Revise Course Prerequisites
   a. CM 363, Construction Estimating and Bidding, 3 hrs.
   b. CM 462, Construction Scheduling, 3 hrs.

Department of Computer Science

I. Proposal to Revise Course Prerequisites/Corequisites
   a. CS 299, Introduction to Research in Computer Science, 3 hrs.
   b. CS 315, Introduction to Unix, 3 hrs.
   c. CS 325, Computer Organization and Architecture, 3 hrs.
   d. CS 360, Software Engineering I, 3 hrs.
   e. CS 370, XML and Web Programming, 3 hrs.
   f. CS 381, Introduction to Computer Networks, 3 hrs.
   g. CS 382, Programming Languages, 3 hrs.
   h. CS 389, Practicum in Computer Science, 1-4 hrs.
   i. CS 396, Intermediate Software Project, 3 hrs.
   j. CS 443, Database Management Systems, 3 hrs.
   k. CS 446, Interactive Computer Graphics, 3 hrs.
   l. CS 456, Artificial Intelligence, 3 hrs.

Department of Geography and Geology

I. Proposal to Delete a Course
   a. GEOG 222, Observational and Analytical Meteorology, 3 hrs.

Action Items

Department of Agriculture

I. Proposal to Revise a Program
   a. Ref. 508, Major in Agriculture, Agronomy-Plant Science Conc., 60 hrs.

Department of Architectural and Manufacturing Sciences

I. Proposal to Make Multiple Revisions to a Course
   a. AMS 180, Introduction to Architectural Practices, 3 hrs.
   b. AMS 262, Architectural Structures, 3 hrs.

II. Proposal to Revise a Program
   a. Ref. 533, Construction Management, 76 hrs.

Department of Computer Science

I. Proposal to Make Multiple Revisions to a Course
   a. CS 181, Computer Science II, 4 hrs.
   b. CS 251, Introduction to Database Systems, 3 hrs.
   c. CS 280, Computer Science III, 3 hrs.
   d. CS 380, Data Structures and Algorithm Analysis, 3 hrs.

II. Proposal to Revise a Program
   a. Ref. 629P/629, Major in Computer Science, 44-50 hrs.
   b. Ref. 341, Minor in Computer Science, 23 hrs.

Department of Psychological Sciences

I. Proposal to Create a New Minor Program
   a. Minor in Neuroscience, 21 hrs.

C. OTHER BUSINESS

Minutes – OCSE Curriculum Committee **September 30, 2014**

MEMBERS PRESENT:

Dr. Mark Revels
Dr. Hemali Rathnayake
Dr. James Gary
Dr. Huanjing Wang
Dr. Julie Ellis
Dr. Warren Campbell
Dr. David Keeling w/ proxy for Xingang Fan
Dr. Richard Schugart
Dr. Keith Andrew
Dr. Kelly Madole
Dr. Andrew Mienaltowski for Steve Haggbloom

FROM: Ken Crawford, Chair

OLD BUSINESS:
Keeling/Campbell moved for approval of the minutes from the September 4, 2014 meeting. Motion passed.

NEW BUSINESS:

Information Agenda
Proposal to Approve a Course in the Colonnade Connections Category, PSYS 350: Introduction to Social Psychology was presented as an informational item only. No action was required.

Consent Agenda
Friendly amendment to correct committee names on the approval lines in the PSYS 462 proposal. All consent items were passed on a Campbell/Keeling motion.

Action Agenda

Department of Agriculture
Keeling/Campbell moved to table Proposal to Revise a Program, Ref. 508 because there was no representative from Agriculture present at the meeting. Proposal tabled.

Department of Architectural and Manufacturing Science
Campbell/Ellis moved for approval of the Proposal to Make Multiple Revisions to AMS 394 with a friendly amendment to define "Lean". Motion passed.

Department of Computer Science
Keeling/Campbell moved for approval of Proposal to Revise a Program, Ref. 629. Motion passed.

Department of Psychological Sciences
Keeling/Campbell moved for approval of Proposal to Create a New Minor, Minor in Psychological Science with a friendly amendment to flesh out MCAT before the first appearance, correct Ogden signature line and delete line to the left of the signature box. Motion Passed.

OTHER BUSINESS:

No other business.

Meeting was adjourned at 4:16pm.

Proposal Date: 10-4-2014

Ogden College of Science and Engineering
Architectural and Manufacturing Sciences Department
Proposal to Revise Course Prerequisites
(Consent Item)

Contact Person: Bryan Reaka, bryan.reaka@wku.edu 270.745.7032

1. **Identification of course:**
   - 1.1 Course prefix (subject area) and number: CM 363
   - 1.2 Course title: Construction Estimating and Bidding

2. **Current prerequisite: CE 303**

3. **Proposed prerequisites/special requirements:** CM 250 or CE 303 or permission of instructor

4. **Rationale for the revision of prerequisites/special requirements:** The prerequisite content included in either CE 303 or CM 250 will allow students to be successful in CM 363. In special cases, an entering student's construction experience may allow him or her to enroll in CM 363 with the instructor's permission.

5. **Effect on completion of major/minor sequence:** This could allow students to matriculate through the sequence of major courses more quickly.

6. **Proposed term for implementation: Fall 2015**

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

Architectural and Manufacturing Sciences Department	**10-10-2014**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: 10-4-2014

Ogden College of Science and Engineering
Architectural and Manufacturing Sciences Department
Proposal to Revise Course Prerequisites
(Consent Item)

Contact Person: Bryan Reaka, bryan.reaka@wku.edu 270.745.7032

1. **Identification of course:**
   - 1.1 Course prefix (subject area) and number: CM 462
   - 1.2 Course title: Construction Scheduling

2. **Current prerequisite:** CE 303

3. **Proposed prerequisites/special requirements:** CM 250 or CE 303 or permission of instructor

4. **Rationale for the revision of prerequisites/special requirements:** The prerequisite content included in either CE 303 or CM 250 will allow students to be successful in CM 462. In special cases, an entering student's construction experience may allow him or her to enroll in CM 462 with the instructor's permission.

5. **Effect on completion of major/minor sequence:** This could allow students to matriculate through the sequence of major courses more quickly.

6. **Proposed term for implementation: Fall 2015**

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

Architectural and Manufacturing Sciences Department	**10-10-2014**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 299

1.2 Course title: Introduction to Research in Computer Science

2. Current prerequisites/corequisites/special requirements:

A "B" or better in CS 180 and 181 or consent of instructor

3. Proposed prerequisites/corequisites/special requirements:

A "B" or better in CS 180 and 221 or consent of instructor

4. Rationale for the revision of prerequisites/corequisites/special requirements:

The revision of course prerequisites is consistent with the renumbering of CS 181 to CS 221.

5. Effect on completion of major/minor sequence:

None

6. Proposed term for implementation:

Fall 2015

7. Dates of prior committee approvals:

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 315
   - 1.2 Course title: Introduction to UNIX

2. **Current prerequisites/corequisites/special requirements:**
   CS 181 (corequisite)

3. **Proposed prerequisites/corequisites/special requirements:**
   CS 221 (corequisite) with a grade of "C" or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 181 to CS 221.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 325
   - 1.2 Course title: Computer Organization and Architecture

2. **Current prerequisites/corequisites/special requirements:**
   CS 181 with a grade of "C" or better

3. **Proposed prerequisites/corequisites/special requirements:**
   CS 221 with a grade of "C" or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 181 to CS 221.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 360
   - 1.2 Course title: Software Engineering I

2. **Current prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 181

3. **Proposed prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 221

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 181 to CS 221.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 370
   - 1.2 Course title: XML and Web Programming

2. **Current prerequisites/corequisites/special requirements:**
   CS 270 and CS 338 with grades of C or better

3. **Proposed prerequisites/corequisites/special requirements:**
   CS 270 and CS 321 with grades of C or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   CS 338 was replaced by CS 280 a few years ago, but for some reason this was not reflected in the catalog. The revision of course prerequisites is consistent with renumbering CS 280 as CS 321.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 381
   - 1.2 Course title: Introduction to Computer Networks

2. **Current prerequisites/corequisites/special requirements:**
   CS 280 with a grade of "C" or better

3. **Proposed prerequisites/corequisites/special requirements:**
   CS 321 with a grade of "C" or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 280 to CS 321.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 181

3. **Proposed prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 221

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 181 to CS 221.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 389
   - 1.2 Course title: Practicum in Computer Science

2. **Current prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 251 and consent of computer science department head.

3. **Proposed prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 351 and consent of Computer Science department head.

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 251 to CS 351.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 396
   - 1.2 Course title: Intermediate Software Project

2. **Current prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 251, ENG 307, and either COMM 161 or 145

3. **Proposed prerequisites/corequisites/special requirements:**
   A grade of "C" or better in CS 351, ENG 307, and either COMM 161 or 145

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 251 to CS 351.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 443
   - 1.2 Course title: Database Management Systems

2. **Current prerequisites/corequisites/special requirements:**
   CS 251 and 280, or permission of instructor

3. **Proposed prerequisites/corequisites/special requirements:**
   Grades of "C" or better in CS 321 and CS 351, or permission of instructor

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering CS 251 to CS 351, and CS 280 to CS 321. Requiring a grade of "C" or better will improve students' chances for success in CS 443.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 446
   - 1.2 Course title: Interactive Computer Graphics

2. **Current prerequisites/corequisites/special requirements:**
   MATH 307 and CS 280 both with grades of "C" or better

3. **Proposed prerequisites/corequisites/special requirements:**
   MATH 307 and CS 321, both with grades of "C" or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 280 to CS 321.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise Course Prerequisites/Corequisites
(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 456
   - 1.2 Course title: Artificial Intelligence

2. **Current prerequisites/corequisites/special requirements:**
   CS 360 and CS 280, both with grades of "C" or better

3. **Proposed prerequisites/corequisites/special requirements:**
   CS 360 and CS 321, both with grades of "C" or better

4. **Rationale for the revision of prerequisites/corequisites/special requirements:**
   The revision of course prerequisites is consistent with the renumbering of CS 280 to CS 321.

5. **Effect on completion of major/minor sequence:**
   None

6. **Proposed term for implementation:**
   Fall 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: September 26, 2014

Ogden College of Science and Engineering
Department of Geography and Geology
Proposal to Delete a Course
(Consent Item)

Contact Person: Gregory Goodrich (Gregory. Goodrich@wku.edu), 5-4555

1. **Identification of course:**
   - 1.1 Current course prefix (subject area) and number: GEOG 222
   - 1.2 Course title: Observational and Analytical Meteorology

2. **Rationale for the course deletion:** Course was replaced with METR 324 in the restructuring of the Meteorology program this past academic year. GEOG 222 is now redundant.

3. **Effect of course deletion on programs or other departments, if known:** No impact known, as the course was replaced with METR 324.

4. **Proposed term for implementation:** Fall 2015

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

Department of Geography and Geology	**9/26/2014**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: September 23, 2014

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

Contact Person: Todd Willian, todd.willian@wkul.edu, (270) 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: 60

2. **Identification of the proposed program changes:**
   - Reduce number of required hours from 60 to 52
   - Add AGRO 317 and AGEC 391 to subcategory 2
   - Add AGRI 315, AGRO 457 and AGRO 458 to subcategory 3
   - Delete AGEC 362, AGRO 455/456 and AGRO 475 from subcategory 3
   - Move AGRI 398 courses from subcategory 4 to subcategory 1
   - Move AGRO 351 from subcategory 2 to subcategory 4
   - Add a 1 hour laboratory (AGRO 111) to subcategory 4

3. **Detailed program description:**

   (Side-by-side table is required for most program changes showing revised program on the right and identifying deletions by strike-through and additions in boldface.)
   - See attached document

4. **Rationale for the proposed program change:**
   - These revisions will allow program requirements listed in ICAP and those listed in the catalog to match, thus eliminating the need for ICAP Exception Appeal Form submissions.
   - Moving AGRI 398 courses to subcategory 1 accurately reflects the 29 hours of required core agriculture courses.
   - Additions to and deletions from subcategories 2 and 3 are based upon conversations with numerous agronomic industry personnel. These changes will better prepare students for careers in crop science.

5. **Proposed term for implementation and special provisions (if applicable): Fall 2015**

6. Dates of prior committee approvals:

Department/ Unit	September 18, 2014
College Curriculum Committee	
Professional Education Council (if applicable)	
Undergraduate Curriculum Committee	
University Senate	

Old iCap	Revisions
1. Take the following required basic agriculture courses: Select From: AGRI 108 AGRO 110 ANSC 140 AGMC 170 AGMC 171 AGRI 291 AGRO 320 AGRO 350 AGEC 360 AGRI 494 Needs: 27 hours	1. The following 29 hours of basic agriculture courses are required: AGRO 110 (3 credit hours) ANSC 140 (3) AGMC 170/171 (3) AGRI 108 (3) AGRI 291 (3) AGRO 320 (3) AGRO 350 (3) AGEC 360 (3) **AGRI 398-001 (1)** **AGRI 398-002 (1)** AGRI 494 (3)
2. Take the following courses from the Agronomy-Plant Science concentration: Needs 22 hours Select from: AGRO 310 ~~AGRO 351~~ AGRO 352 AGEC 361 AGRO 409 AGRO 410 AGRO 414 AGRO 420 AGRO 421 AGRO 422	2. Select 18 credit hours from the following courses for the Agronomy- Plant Science concentration: AGRO 310 (3) **AGRO 317 (3)** AGRO 352(3) AGEC 361 (3) **AGEC 391 (3)** AGRO 409/410 (3) AGRO 414 (3) AGRO 420/421 (3) AGRO 422 (3)
3. Take three of the following courses. Note: AGRO 455 and 456 must be taken together. Needs: 3 sets Select from: ~~AGEC 362~~ AGRO 452 AGRO 454 ~~AGRO 455~~ ~~AGRO 456~~ ~~AGRO 475~~ 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 two AGRI 398 courses. Needs: 2 hours Select from: ~~AGRI 398~~	4. The following laboratory courses are required: **AGRO 111 (1)** **AGRO 351 (1)**

Proposal Date: 10/08/2014

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

Contact Person: Neal Downing / neal.downing@wku.edu / 270-745-6302

1. Identification of course:

1.1 Current course prefix (subject area) and number: AMS 180

1.2 Course title: Introduction to Architectural Practices

2. Revise course title:

2.1 Current course title: Introduction to Architectural Practices

2.2 Proposed course title: Introduction to Architecture

2.3 Proposed abbreviated title: Introduction to Architecture

2.4 Rationale for revision of course title: The simplified name is more accurate for course content

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/corequisites/special requirements:

4.1 Current prerequisites/corequisites/special requirements: (indicate which)
Pre-requisite / Co-requisite: HIST 119 or 120

4.2 Proposed prerequisites/co-requisites/special requirements: none

4.3 Rationale for revision of course prerequisites/co-requisites/special requirements:
The History Department is no longer going to offer HIST 119 or 120. The students who have already passed HIST 119 or 120 prior to taking the course over the last several semesters have not shown any advantage over those students who have not already passed HIST 119 or 120 in this course.

4.4 Effect on completion of major/minor sequence: none

5. Revise course catalog listing: NA

5.1 Current course catalog listing:

5.2 Proposed course catalog listing:

5.3 Rationale for revision of course catalog listing:

6. Revise course credit hours: 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: 201530**

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

Department of Architectural & Manufacturing Sciences	10/10/2014
Ogden College Curriculum Committee	
Professional Education Council (if applicable)	
General Education Committee (if applicable)	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: Oct 4, 2014

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

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

1. Identification of course:

1.1 Current course prefix (subject area) and number: AMS 282

1.2 Course title: Architectural Structures

2. Revise course title:

2.1 Current course title: Architectural Structures

2.2 Proposed course title: Building Structures

2.3 Proposed abbreviated title: Building Structures

2.4 Rationale for revision of course title: The course serves multiple disciplines in the building area, not just architectural sciences students. This name change better reflects the diverse content of the course.

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: AMS 261, MATH 117 (or equivalent), PHYS 201

4.2 Proposed prerequisites: MATH 117 or higher

4.3 Rationale for revision of course prerequisites: The Physics Department is no longer going to offer PHYS 201. The students who have already passed AMS 261 prior to taking the course over the last several semesters have not shown any advantage over those students who have not already passed AMS 261.

4.4 Effect on completion of major/minor sequence: This may allow students to matriculate more quickly through the program of study.

5. Revise course catalog listing: NA

5.1 Current course catalog listing:

5.2 Proposed course catalog listing:

5.3 Rationale for revision of course catalog listing:

6. Revise course credit hours: 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 2015**

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

Department: Architectural and Manufacturing Sciences	**10-10-2014**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: October 4, 2014

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

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

1. Identification of program:

1.1 Current program reference number: 533
1.2 Current program title: Construction Management
1.3 Credit hours: 76

2. Identification of the proposed program changes:

Changes to Construction Management Major

- Replace CM337 with AMS 217
- Replace CM 346 with AMS 305
- Replace CM 426 with AMS 390
- Replace CM 400 with AMS 394
- Add AMS 371
- Add UC 400 as option for AMS 398
- Add AGMC 170/171 as option for CE 160/161
- Remove CM 463
- Remove ACCT 201
- Remove MGT 311
- Add MKT 220 or MKT 325 or FIN161 or FIN 161C or RE 170C or BUS 100C or BUS 102C or BUS 110C or BUS 250C or BUS 252C or MKT 390 or ENT 312 as options for ACCT 200
- Add AMS 430 or BUS 210C or BUS 245C or BUS 248C as options for MGT 210
- Add MGT 200 or MGMT 200C or MGT 314 or MGT 333 or MGT 365 or BUS 226C or PLS 190C as options for MGT 301
- Add ECO 150 or ECO 202 or ECON 203 or ECO 203 or ECON 375 or ECON 390 or BUS 160C or Bus 212C as options for ECON 150 or ECON 202
- Remove AMS 175
- Remove CIS 141
- Remove COMM 161
- Remove PHIL 320
- Remove CHEM 106 and CHEM 116
- Remove PHYS 201
- Remove SFTY 171
- Replace advisor approved electives with electives in the program
- Reduce number of hours in Construction Management Major from 76 to 66/67

- Add colonnade requirements
- Specify MATH 117 or higher as the students colonnade mathematics course

3. Detailed program description:

CONSTRUCTION MANAGEMENT (OLD)		76 hrs			Construction Management (New)	69/70
AMS 140	Intro to Occupational Safety	1 hr		AMS 140	Intro to Occupational Safety	1
AMS 163	Architectural Drafting	3 hrs		AMS 163	Architectural Drafting	3
CM 337	**Applied Strength of Materials**	**3 hrs**		**AMS 217**	**Industrial Materials**	**3**
AMS 261	Construction Methods & Materials	3 hrs		AMS 261	Construction Methods & Materials	3
AMS 262	Construction Laboratory	1 hr		AMS 262	Construction Laboratory	3
AMS 282	Architectural Structures	3 hrs		AMS 282	Structures	3
CM 346	**Applied Soil Mech. & Foundation**	**3 hrs**		**AMS 305**	**Building Codes**	**3**
AMS 325	Survey of Building Systems	3 hrs		AMS 325	Survey of Building Systems	3
AMS 271	Industrial Statistics	3 hrs		AMS 271	Industrial Statistics	3
				AMS 371	**Quality Assurance**	**3**
CM 426	**Construction Law**	**3 hrs**		**AMS 390**	**Project Management**	**3**
CM 400	**Construction Admin.**	**3 hrs**		**AMS 394**	**Lean Systems**	**3**
AMS 398	**Internship I**	**1 hr**		**AMS 398 or UC 400**	**Internship I or Mentored Research Experience**	**1**
CE 160/ 161	**Surveying I /Lab**	**3/1 hrs**		**CE 160/161 or AGMC 170/171**	**Surveying I /Lab or Intro to Agricultural Mechanization/ Lab**	**4 or 3**
CE 303	Construction Management	3 hrs		CE 303	Construction Management	3
CE 304	Construction Management Lab	1 hr		CE 304	Construction Management Lab	1
CE 316	Equipment & Methods	3 hrs		CE 316	Equipment & Methods	3
CM 250	Contract Documents	3 hrs		CM 250	Contract Documents	3
CM 363	Construction Estimating & Bidding	3 hrs		CM 363	Construction Estimating & Bidding	3
CM 462	Construction Scheduling	3 hrs		CM 462	Construction Scheduling	3
AMS 490	Senior Research	3 hrs		AMS 490	Senior Research	3
CM 463	**Construction Est. & Bid. II**	**3 hrs**			**Drop**	
ACCT 201	**Intro. Account. Man.**	**3 hrs**			**Drop**	
MGT 311	**Human Resources Mgt.**	**3 hrs**			**Drop**	
ACCT 200	**Introductory Accounting Financial**	**3 hrs**		**ACCT 200, or MKT 220, or MKT 325 or FIN161 or FIN 161C or RE 170C or BUS 100C or BUS 102C or BUS 110C or BUS 250C or BUS 252C or MKT 390 or ENT 312**	**Introductory Accounting or Basic Marketing Concepts or Personal Selling or Personal Finance or Essentials of Real Estate or Intro to Business or Intro to Ethical Issues in Business or Basic Accounting or Business Entrepreneurship or Selling and Sales Management or Value Creation in Emerging Markets or Entrepreneurship**	**3**
MGT 210	**Organization & Management**	**3 hrs**		**AMS 430 or MGT 210 or BUS 210C or BUS 245C or BUS 248C**	**Tech Management/Supervision or Organization & Management or Managing Diversity in the Workplace or Supervisory Management**	**3**

MGT 301	**Business Law**	**3 hrs**		**MGT 200 or MGMT 200C or MGT 301 or MGT 314 or MGT 333 or MGT 365 or BUS 226C, or PLS 190C**	**Legal Environment of Business or Business Law or Operations Management or Management of Nonprofit Organization or Entrepreneurial Law or Introduction to Law or Intro Paralegal Studies**	**3**
ECON 150 or ECON 202	**Intro Economics / Principals of Economics**	**3 hrs**		**ECON 150 or ECO 150 or ECON 202 or ECO 202 or ECON 203 or ECO 203 or ECON 375 or ECON 390 or BUS 160C**	**Intro to Economics or Principles of Economics (Micro) or Principles of Economics (Macro) or Moral Issues of Capitalism or Economics, Law, and Public Choice or Financial Management**	**3**
Additional Required Courses for Major						
AMS 175	**University Experience**	**2 hrs**			**Drop**	
CIS 141	**Basic Computer Literacy**	**3 hrs**			**Drop**	
COMM 161	**Business & Prof Speaking**	**3 hrs**			**Drop**	
PHIL 320	**Ethics**	**3 hrs**			**Drop**	
CHEM 106 and 116	**Lab Fundamentals / Intro College Chemistry**	**3 hrs**			**Drop**	
		1 hr			**Drop**	
PHYS 201	**College Physics I**	**3 hrs**			**Drop**	
PHYS 201	**College Physics I**	**4 hrs**			**Drop**	
SFTY 171	**Safety & First Aid**	**1 hr**			**Drop**	
Advisor approved Electives		**6 hrs**		**Electives**		**11/12**
					Colonnade courses	
					***Foundations:* 18 hrs**	
				ENG 100	Intro To College Writing	3
				ENG 200	Intro Literature	3
				ENG 300	Writing In the Disciplines	3
				Math 117 or higher	**Trigonometry**	**3**
				COMM 145	Public Speaking Elective	3
				HIST 101/102	World History I/II	3
					***Explorations:* 12 hrs**	
					Arts & Humanities	3
					Social & Behavioral Studies	3
					Natural & Phys. Science w/ Lab	6
					***Connections:* 9 hrs**	
					Social & Cultural	3
					Local to Global	3
					Systems	3
					TOTAL	120

4. Rationale for the proposed program change:

Changes to Construction Management Major

The Construction Management Program is accredited by ATMAE (Association of Technology Management and Applied Engineering) as well as ACCE (American Council on Construction Education). To reduce duplication of efforts as well as costs, the AMS Department is planning to keep the ATMAE accreditation, which affects 3 other programs in the department and drop the ACCE accreditation.

- Replace CM337 with AMS 217
  To reduce redundancy of courses in the AMS Department, CM 337 will cease to be offered, and its content will be covered in AMS 217.

- Replace CM 346 with AMS 305
  The students in in the Construction Management Program get some application of soil types and properties in other courses in the curriculum. It has been suggested by alumni that Building Codes (AMS 305) would be more beneficial to the graduates. Building Codes is a course that is already offered in the AMS Department.
- Add AMS 371
  As construction companies move toward providing a better product for their customers, it has been recommended by the alumni of the CM program that AMS 371 (Quality Assurance) would be beneficial for graduates of the Construction Management Program. Quality Assurance is a course that is already offered in the AMS Department.
- Replace CM 426 with AMS 390
  This is a reduction in course redundancy, as CM 426 includes much of the content in MGT 301. It has been determined that construction management students need Project Management (AMS 390) to help them manage and complete projects in industry. Project Management is a course that is already offered in the AMS Department.
- Replace CM 400 with AMS 394
  Students get information about administration in CM 250 (Contract Documents). AMS 394 (Lean Systems) introduces lean topics, which are the enhancement of customer value and the elimination and reduction of all forms of waste, which many companies are looking for to remain competitive. Lean Systems is a course that is already offered in the AMS Department.
- Add UC 400 as option for AMS 398
  UC 400 (Mentored Research Experience) is required of students who are completing a FUSE grant with the University. It is a reasonable substitute for AMS 398 (Internship I)
- Add AGMC 170/171 as option for CE 160/161
  This will allow students different options for courses with labs in the area of basic surveying.
- Remove CM 463
  The second course in estimating and bidding was redundant and it was suggested by alumni of the Construction Management Program that an introduction to this topic (CM 363: Construction Estimating and Bidding) would be beneficial enough for students in the construction field.
- Remove ACCT 201
  The Construction Management Program currently is accredited by ATMAE (Association of Technology, Management and Applied Engineering) as well as ACCE (American Council on Construction Education). The second accounting course is a requirement of ACCE. The AMS Department deems dual accreditation to be unnecessary for the CM Program and is looking into dropping ACCE Accreditation.
- Remove MGT 311
  The Construction Management Program currently is accredited by ATMAE (Association of Technology, Management and Applied Engineering) as well as

ACCE (American Council on Construction Education). MGT 311 is a requirement of ACCE (American Council on Construction Education). The AMS Department deems dual accreditation to be unnecessary for the CM Program and is looking into dropping ACCE Accreditation.

- Add MKT 220 or MKT 325 or FIN161 or FIN 161C or RE 170C or BUS 100C or BUS 102C or BUS 110C or BUS 250C or BUS 252C or MKT 390 or ENT 312 as option for ACCT 200
  This gives students more scheduling options for courses in the accounting and marketing areas and allows some customization of coursework depending upon the goals of the student.
- Add AMS 430 or BUS 210C or BUS 245C or BUS 248C as option for MGT 210
  This gives students more scheduling options in the organizational management courses and allows for some customization of coursework depending upon the goals of the student
- Add MGT 200 or MGMT 200C or MGT 314 or MGT 333 or MGT 365 or BUS 226C as option for MGT 301
  This gives students more scheduling options for courses in the business law area and allows some more scheduling options depending upon the goals of the student.
- Add ECO 150 or ECO 202 or ECON 203 or ECO 203 or ECON 375 or ECON 390 or BUS 160C as option for ECON 150 or ECON 202
  This gives students more scheduling options for courses in the economics area and allows some more scheduling options depending upon the goals of the student.
- Remove AMS 175
  The AMS Department no longer teaches this course.
- Remove CIS 141
  The Construction Management Program currently is accredited by ATMAE (Association of Technology Management and Applied Engineering) as well as ACCE (American Council on Construction Education). CIS 141 is a requirement of ACCE. The AMS Department deems dual accreditation to be unnecessary for the CM Program and is looking into dropping ACCE Accreditation.
- Remove COMM 161
  The Construction Management Program currently is accredited by ATMAE (Association of Technology Management and Applied Engineering) as well as ACCE (American Council on Construction Education). Business and Professional Speaking (COMM 161) is a requirement of ACCE. The AMS Department deems dual accreditation to be unnecessary for the CM Program and is looking into dropping ACCE Accreditation.
- Remove PHIL 320
  The Construction Management Program currently is accredited by ATMAE (Association of Technology Management and Applied Engineering) as well as ACCE (American Council on Construction Education). An ethics course is a requirement of ACCE, but the topic of ethics is included in many courses throughout the curriculum. The AMS Department deems dual accreditation to be

unnecessary for the CM Program and is looking into dropping ACCE Accreditation.

- Remove CHEM 106 and CHEM 116
  Students' career goals will be addressed during advising as to which course they should take in this area.
- Remove PHYS 201
  The Physics Department is no longer going to offer this course. Students' career goals will be addressed during advising as to which course they should take in this area.
- Remove SFTY 171
  This course is not a part of the new Colonnade Program. Most companies include safety and first aid training in their orientation of new employees.
- Remove advisor approved electives
  Electives will be determined during advising to allow a more customized program of study for students based upon their career goals and not prescribed.
- Reduce number of hours in Construction Management Major from 76 to 69/70
  Reduction reflects the removal of 9 hours of prescribed courses and the addition of 3 hours of a different course.
- Add colonnade requirements
- Add MATH 117 or higher as student's colonnade mathematics course
  Trigonometry has been determined to be the level of math that will allow students to successfully matriculate through the Construction Management Program.

5. **Effective Catalog Year:** 2015-2016

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

Architectural and Manufacturing Sciences Department ____10-10-2014___

OCSE Curriculum Committee _____

Undergraduate Curriculum Committee _____

University Senate _____

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
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 181
   - 1.2 Course title: Computer Science II

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:**
   - 3.1 Current course number: CS 181
   - 3.2 Proposed course number: CS 221
   - 3.3 Rationale for revision of course number:
     The revision of course number is consistent with the ongoing restructuring of the computer science undergraduate program.

4. **Revise course prerequisites/corequisites/special requirements:**
   - 4.1 Current prerequisites/corequisites/special requirements:
     PHIL 215 and CS 180 with grades of C or better, and eligibility to enroll in a calculus course based on criteria developed by the Department of Mathematics
   - 4.2 Proposed prerequisites/corequisites/special requirements:
     CS 180 with grade of C or better, and eligibility to enroll in a calculus course based on criteria developed by the Department of Mathematics
   - 4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
     PHIL 215 teaches logic. Logic is pre-knowledge for CS 321 rather than CS 181. PHIL 215 will become a prerequisite for CS 321.
   - 4.4 Effect on completion of major/minor sequence:
     None

5. **Revise course catalog listing:** NA
   - 5.1 Current course catalog listing:
   - 5.2 Proposed course catalog listing:
   - 5.3 Rationale for revision of course catalog listing:

6. **Revise course credit hours:** 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 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
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 251

1.2 Course title: Introduction to Database Systems

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:

3.1 Current course number: CS 251

3.2 Proposed course number: CS 351

3.3 Rationale for revision of course number:
The revision of course number is consistent with the ongoing restructuring of the computer science undergraduate program. The content covered in this course belongs in the upper- division category. Also, majority of students taking this course (90% in Spring 2014) have at least Junior status.

4. Revise course prerequisites/corequisites/special requirements:

4.1 Current prerequisites/corequisites/special requirements:
CS 181 with a grade of "C" or better

4.2 Proposed prerequisites/corequisites/special requirements:
CS 221 with a grade of "C" or better

4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
The revision of course prerequisites provides consistency with the renumbering of CS 181 to CS 221.

4.4 Effect on completion of major/minor sequence:
None

5. Revise course catalog listing: NA

5.1 Current course catalog listing:

5.2 Proposed course catalog listing:

5.3 Rationale for revision of course catalog listing:

6. Revise course credit hours: 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 2015

9. Dates of prior committee approvals:

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
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 280

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:

3.1 Current course number: CS 280

3.2 Proposed course number: CS 321

3.3 Rationale for revision of course number:
The revision of course number is consistent with the ongoing restructuring of the computer science undergraduate program. The new level is more appropriate to the material being covered. Also, the majority of students taking this course (83% in Spring 2014) have at least Junior status.

4. Revise course prerequisites/corequisites/special requirements:

4.1 Current prerequisites/corequisites/special requirements:
A grade of "C" or better in CS 181 and MATH 136

4.2 Proposed prerequisites/corequisites/special requirements:
A grade of "C" or better in CS 221, PHIL 215, and MATH 136

4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
CS 181 has been renumbered CS 221. PHIL 215 teaches logic, which provides a basis for understanding the content of CS 321.

4.4 Effect on completion of major/minor sequence:
None

5. Revise course catalog listing: NA

5.1 Current course catalog listing:

5.2 Proposed course catalog listing:

5.3 Rationale for revision of course catalog listing:

6. Revise course credit hours: 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 2015

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

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
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 380
   - 1.2 Course title: Data Structures and Algorithm Analysis

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:**
   - 3.1 Current course number: CS 380
   - 3.2 Proposed course number: CS 421
   - 3.3 Rationale for revision of course number:
     The revision of course number is consistent with the ongoing restructuring of the computer science undergraduate program. No other CS courses use this course as a prerequisite.

4. **Revise course prerequisites/corequisites/special requirements:**
   - 4.1 Current prerequisites/corequisites/special requirements:
     A grade of "C" or better in CS 280 and STAT 301
   - 4.2 Proposed prerequisites/corequisites/special requirements:
     A grade of "C" or better in CS 321 and STAT 301
   - 4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
     The revision of course prerequisites is consistent with the renumbering of CS 280 to CS 321.
   - 4.4 Effect on completion of major/minor sequence:
     None

5. **Revise course catalog listing:** NA
   - 5.1 Current course catalog listing:
   - 5.2 Proposed course catalog listing:
   - 5.3 Rationale for revision of course catalog listing:

6. **Revise course credit hours:** 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 2015

9. Dates of prior committee approvals:

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise A Program
(Action Item)

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

1. **Identification of program:**
   - **1.1** Current program reference number:
     629P (seeking admission)
     629 (officially admitted)
   - **1.2** Current program title: Major in Computer Science
   - **1.3** Credit hours: 44-50

2. **Identification of the proposed program changes:**
   - Changing numbers of several courses

3. **Detailed program description:**

The major in computer science requires a minimum of 44 semester hours. To be admitted to the computer science major, students must complete CS 180, ~~181~~, and CS ~~280~~ 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 0-6 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:	The major in computer science requires a minimum of 44 semester hours. To be admitted to the computer science major, students must complete CS 180, **221**, and CS **321** 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 0-6 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 1. 50 hours are required including 47 hours of computer science courses and 3 hours of STAT 301. 2. ENG 307, MATH 136, and PHIL 215 are required. 3. Completion of these 11 CS core courses (35 credit hours): CS 180, ~~181~~, ~~251~~, ~~280~~, 325, 360, ~~380~~, 382, 396, 425, and 496. 4. Completion of 12 hours of CS electives from the following courses: CS 370, 381, 443, 445, 446, 450, and 456. 5. Completion of 2 courses from the following	Systems/Scientific Applications Concentration 1. 50 hours are required including 47 hours of computer science courses and 3 hours of STAT 301. 2. ENG 307, MATH 136, and PHIL 215 are required. 3. Completion of these 11 CS core courses (35 credit hours): CS 180, **221**, **321,** 325, **351,** 360, 382, 396, **421**, 425, and 496. 4. Completion of 12 hours of CS electives from the following courses: CS 370, 381, 443, 445, 446, 450, and 456. 5. Completion of 2 courses from the following

list: MATH 127, 137, 305, 307, 331, 405, 406, 470 and 473. 6. Completion of one year of a laboratory science (a two semester sequence of the same science) and one additional science course. All must be designed for Science/Engineering majors. 7. One additional course from the above list of ~~MATH~~ courses (this course may not be used to satisfy any other CS major degree requirement) or one additional science course designed for science/engineering majors.	list: MATH 127, 137, 305, 307, 331, 405, 406, 470 and 473. 6. Completion of one year of a laboratory science (a two semester sequence of the same science) and one additional science course. All must be designed for Science/Engineering majors. 7. One additional course from the above list of **Mathematics** courses (this course may not be used to satisfy any other CS major degree requirement) or one additional science course designed for science/engineering majors.
Any Minor Option 1. 44 hours of computer science courses are required. 2. ENG 307, MATH 136, STAT 301, and PHIL 215 are required. 3. Completion of these 11 CS core courses (35 credit hours): CS 180, ~~181~~, ~~251~~, ~~280~~, 325, 360, ~~380~~, 382, 396, 425, and 496. 4. Completion of an additional 9 hours of CS electives at the 200-level or above (excluding CS 226 and 257) including 3 hours at the 400-level and another 3 hours at the 300-level or higher. Note: 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. 5. Completion of any additional minor/major.	Any Minor Option 1. 44 hours of computer science courses are required. 2. ENG 307, MATH 136, STAT 301, and PHIL 215 are required. 3. Completion of these 11 CS core courses (35 credit hours): CS 180, **221**, **321,** 325, **351,** 360, 382, 396, **421**, 425, and 496. 4. Completion of an additional 9 hours of CS electives at the 200-level or above (excluding CS 226 and 257) including 3 hours at the 400-level and another 3 hours at the 300-level or higher. Note: 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. 5. Completion of any additional minor/major.
Specialty Concentration 50 hours of computer science courses are required. 1. ENG 307, MATH 136, STAT 301, and PHIL 215 are required. 2. Completion of these 13 CS core courses (41 credit hours): CS 180, ~~181~~, ~~251~~, ~~280~~, 325, 360, ~~380~~, 381, 382, 396, 425, 443, and 496. 3. An additional 18 hours of specialty courses, selected in consultation with a CS advisor, not used to satisfy specific other graduation requirements for the CS major or for the Colonnade Program, including 9 hours of which are at the 300 level or above.	Specialty Concentration 1. 50 hours of computer science courses are required. 2. ENG 307, MATH 136, STAT 301, and PHIL 215 are required. 3. Completion of these 13 CS core courses (41 credit hours): CS 180, **221**, **321**, 325, **351**, 360, 381, 382, 396, **421**, 425, 443, and 496. 4. An additional 18 hours of specialty courses, selected in consultation with a CS advisor, not used to satisfy specific other graduation requirements for the CS major or for the Colonnade Program, including 9 hours of which are at the 300 level or above.

4. Completion of an additional 9 hours of CS electives at the 200-level or above (excluding CS 226 and 257) including 3 hours at the 400-level and another 3 hours at the 300-level or higher. Note: 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.	5. Completion of an additional 9 hours of CS electives at the 200 level or above (excluding CS 226 and 257) including 3 hours at the 400 level and another 3 hours at the 300 level or higher. Note: 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.

4. Rationale for the proposed program change:
The revision of program reflects the renumbering of CS 181 to CS 221, CS 251 to CS 351, CS 280 to CS 321, and CS 380 to CS 421.

5. Proposed term for implementation and special provisions (if applicable):
Fall 2015

6. Dates of prior committee approvals:

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: October 4, 2014

Ogden College of Science and Engineering
Department of Computer Science
Proposal to Revise A Program
(Action Item)

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

1. Identification of program:

1.1 Current program reference number: 341
1.2 Current program title: Minor in Computer Science
1.3 Credit hours: 23

2. Identification of the proposed program changes:

- Change the course number
- Delete the additional requirements
- Change number of credit hours from 23 to 20

3. Detailed program description:

~~The following 23 credit-hour program leads to a minor in computer science.~~ All CS courses counting toward the CS program minor must be completed with a grade of "C" or better: 1. Completion of the following 11 credit hours: ~~CS 180, 181, and 251 or 280~~. 2. ~~Completion of at least 12 hours of CS courses at the 300-level or higher.~~ 3. ~~Completion of: MATH 119 or MATH 136, and PHIL 215.~~	**The following 20 credit-hour program leads to a minor in computer science.** All CS courses counting toward the CS program minor must be completed with a grade of "C" or better. **1. Completion of the following two required courses (8 hours):** **CS 180 and CS 221** **2. Completion of the one of the following courses (3 hours):** **CS 321 or CS 351** 3. **Completion of 9 additional hours of CS courses at the 300-level or higher.**

4. Rationale for the proposed program change:

The revision of program is consistent with the renumbering of CS 181 to CS 221, CS 251 to CS 351, and CS 280 to CS 321. To encourage more students to pursue the CS minor, the minimum requirements has been reduced to 20 hours. At University of Kentucky, the minor in Computer Science requires a minimum of 20 hours of course work in CS; at the University of Alabama minor in Computer Science requires a minimum of 18 hours of course work in CS; at Miami University minor in Computer Science requires a minimum of 18 hours of course work in CS.

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

Fall 2015

6. Dates of prior committee approvals:

Department of Computer Science	October 21, 2014
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: September 4, 2014

Ogden College of Science and Engineering
Department of Psychological Sciences
Proposal to Create a New Minor Program
(Action Item)

Contact Person: Sharon Mutter, sharon.mutter@wku.edu, 5-4389

1. Identification of program:

1.1 Program title: Neuroscience

1.2 Required hours in minor program: 21

1.3 Special information:
This interdisciplinary minor draws on courses offered by the Department of Psychological Sciences, the Department of Biology, the Department of Chemistry, and the Department of Philosophy. The minor will be administered in the Department of Psychological Sciences.

1.4 Catalog description:

The minor in Neuroscience offers students the opportunity to study the intersection of brain and behavior in a manner that incorporates tools and perspectives from the psychological and biological sciences, and related disciplines. This minor will be an attractive option for students who are (1) planning to pursue advanced study in any of several fields related to neuroscience, including psychology, biology, medicine, counseling, or social work or (2) seeking relevant training for jobs related to the assessment, rehabilitation, and treatment of brain damage, brain diseases, and addiction.

The minor in Neuroscience requires a minimum of 21 credit hours of coursework. This includes 6 hours of required courses and an additional 15 credit hours in electives. Students must take PSYS 100 and BIOL 120/121 prior to beginning their coursework in the minor (some courses available for the minor may have additional prerequisites). Students who are majoring or minoring in Psychological Science or Biology may apply no more than six hours of major or minor course work in these areas to the minor in Neuroscience.

1.5 Classification of Instructional Program Code (CIP): 30.1001

2. Rationale:

2.1 Reason for developing the proposed minor program:
Some of the most important recent scientific discoveries have come from the study of neuroscience, a multidisciplinary field at the intersection of brain and behavior that incorporates tools and perspectives from molecular and cellular biology, genetics, physiology, pharmacology, chemistry and biochemistry, computer modeling, and behavioral and cognitive psychology. Data from the Society for Neuroscience indicate that the number of graduate and undergraduate programs in neuroscience has grown dramatically over the last twenty years. In response to the growing demand for training in this field, the Department of Psychological Sciences proposes to offer WKU students an interdisciplinary minor in neuroscience.

2.2 Projected enrollment in the proposed minor program:
We anticipate that enrollment in the program will initially be around 20 students per year, but will grow to around 50 students as the program matures.

2.3 Relationship of the proposed minor program to other programs now offered by the department: Neither the Department of Psychological Sciences nor the Department of Biology offers a major or minor in Neuroscience. However, the Biology department

currently offers a minor in Biology and the Psychological Sciences department is proposing a new minor in Psychological Science. The proposed minor in Neuroscience includes courses that are prerequisites for the major and minor in each of these disciplines as well as one required course and three elective courses that could be used to satisfy the remaining requirements for these programs. Students majoring or minoring in Psychological Science or Biology will only be allowed to count six credit hours from their major or minor toward the minor in Neuroscience. This will still offer motivated WKU students the option of completing dual minors in Neuroscience and Psychological Science or Neuroscience and Biology.

2.4 Relationship of the proposed minor program to other university programs: Other than the relationship of the proposed minor to programs in Psychological Science and Biology discussed in 2.3 above, there are no programs at WKU that are similar. The proposed minor will therefore complement many programs at WKU, especially those in psychological science, biology, psychology, sociology, and various health-related pre-professional programs.

2.5 Similar minor programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): Many universities now offer either a major or minor in Neuroscience. An undergraduate major or minor in Neuroscience or a related area is offered at the following KY universities: Morehead (pending approval by SACSCOC), NKU, and UK. Additionally, eight of our benchmark universities offer a major, a minor, or both in Neuroscience or a related field. There is broad overlap in the content the proposed program with the curriculum of these programs.

2.6 Relationship of the proposed minor program to the university mission and objectives: The proposed minor program contributes to WKU's mission by offering students an opportunity to complete coursework that focuses on the scientific study of the brain and behavior. The minor will have a significant impact on the intellectual level of undergraduate students by increasing their scientific literacy and helping them gain critical thinking skills. It will also help the university strengthen several key initiatives, such as developing interdisciplinary programs and training a diverse group of future scientists in important STEM disciplines.

3. Learning outcomes of the proposed minor:

Upon completion of the minor in Neuroscience, students will:

-Understand basic concepts in biology and psychology that serve as the foundation of the scientific study of brain, mind, and behavior
-Understand the organization of the nervous system and its relation to mind and behavior
-Appreciate the interdisciplinary nature of the field of neuroscience
-Use critical thinking skills to judge the scientific merit of original neuroscience research and its representation in the media
-Communicate effectively about neuroscience in written and oral form

4. Curriculum:

The minor in Neuroscience requires a minimum of 21 credit hours of coursework. This includes 6 hours of required courses and an additional 15 credit hours in electives. Students must earn a grade of C or better in all courses applied toward the minor. Students must take PSYS 100 and BIOL 120/121 prior to beginning their coursework in the minor. Students who are majoring in Biology or Psychological Science may apply no more than six hours of their major course work to the minor.

The following courses are required (6 hours):

PSYS 360 Behavioral Neuroscience (3 hours)
BIOL 335 Neurobiology (3 hours)

At least 15 credit hours may be selected from the following courses. Students must choose at least 1 course each from Biology and Psychology. Note that some of these courses have prerequisites beyond those required by the minor.

PSYS 331 Psychology of Learning (3 hours)
PSYS 333 Cognitive Psychology (3 hours)
PSYS 363 Sensory and Perceptual Systems (3 hours)
PSYS 462 Neuroscience of Learning and Memory (3 hours)
PSYS 465 Psychopharmacology (3 hours)
BIOL 319 Introduction to Molecular and Cell Biology
BIOL 327 Genetics (3 hours)
BIOL 334 Animal Behavior (3 hours)
BIOL/CHEM 446 Biochemistry (3 hours)
PHIL 332 Philosophy of Mind: Minds and Machines (3)

Though not required for the minor, students are strongly encouraged to obtain research experience in topics related to neuroscience. There are several laboratories in the Psychological Science, Biology, and Chemistry departments that offer research opportunities to undergraduate students. For more information on research laboratories and opportunities, students should review the websites of faculty in these departments.

5. **Budget implications:** The minor will be offered using courses that are currently taught by faculty in Ogden College of Science and Engineering and Potter College of Arts and Letters.

6. **Proposed term for implementation:** Spring 2015

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

Department of Psychological Sciences	**9/5/2014**
Ogden College Curriculum Committee	
Undergraduate Curriculum Committee	
University Senate	
Board of Regents	