

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, May 3, 2018 4:00 p.m. in OCH 1028

A. OLD BUSINESS:

- I. Consideration of the minutes of the April 5, 2018 meeting.

B. NEW BUSINESS:

| Type of item | Description of Item & Contact Information |
|--------------|--|
| Consent | Proposal to Revise Course Prerequisites/Corequisites EE 300, Electrical Engineering Design III, 1 hr. Contact: Walter Collett, walter.collett@wku.edu , x2016 |
| Consent | Proposal to Revise Course Prerequisites/Corequisites EE 380, Microprocessors, 4 hrs. Contact: Walter Collett, walter.collett@wku.edu , x2016 |
| Action | Proposal to Revise a Program Ref. 537, Electrical Engineering, 58 hrs. Contact: Walter Collett, walter.collett@wku.edu , x2016 |
| Action | Proposal to Revise a Program Ref. 575, Technology Management, 120 hrs. Contact: Walter Collett, walter.collett@wku.edu , x2016 |

C. OTHER BUSINESS

Members Present:

Dr. Melanie Autin
Dr. Dough Harper
Dr. Jeremy Maddox
Dr. Andy Mienaltowski

Dr. Les Pesterfield
Dr. Huanjing Wang
Dr. Todd Willian

FROM: Ken Crawford, Chair

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

OLD BUSINESS:

Autin/Mienaltowski moved to approve of the minutes of the February 1, 2018 meeting. Motion passed.

NEW BUSINESS:

Consent Agenda

Mienaltowski/Pesterfield moved to approve the consent agenda with a friendly amendment to the PHYS 140 proposal. Motion passed.

Action Agenda

Department of Chemistry

Mienaltowski/Autin moved to bundle and approve the Proposals to Revise Course Credit Hours: CHEM 299 & CHEM 399. Motion passed with friendly amendment.

Department of Geography & Geology

Autin/Mienaltowski moved to bundle and approve the Proposals to Revise Course Credit hours: GEOL 420 & GEOG 420. Motion passed with friendly amendment.

Department of Physics & Astronomy

Harper/Autin moved to approve the Proposal to Make Multiple Revisions to a Course: PHYS 321, Introductory to Modern Physics II. Motion passed with friendly amendment.

Mienaltowski/Harper moved to approve the Proposal to Create a New Course: PHYS 161, Intro Biopsychology lab. Motion passed.

OTHER BUSINESS:

Question was asked about why PHYS 231/232 was not listed as a course that would satisfy the natural science colonnade requirement. Physics Department Rep will talk to Department Head and report back.

Adjourned 4:17pm

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

Contact Person: Walter Collett, walter.collett@wku.edu, 270-745-2016

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE 300
- 1.2 Course title: Electrical Engineering Design III

2. Current prerequisites:

Prerequisite(s): Completion of Electrical Engineering pre-major requirements and EE 200, or consent of instructor

3. Proposed prerequisites:

Prerequisite(s): Completion of Electrical Engineering pre-major requirements, EE 101, EE 180, EE 200, and CS 239 or CS 180; or consent of instructor.

4. Rationale for the revision of prerequisites:

The courses EE 101, EE 180, and CS 239 were, until recently, on the list of Electrical Engineering pre-major requirements. These courses were dropped from that list, but are still necessary for students taking EE 300. Also, students are allowed to take CS 180 in place of CS 239.

5. Effect on completion of major/minor sequence:

None.

6. Proposed term for implementation:

As soon as possible.

7. Dates of prior committee approvals:

School of Engineering and Applied Sciences

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

3/23/18

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

Contact Person: Walter Collett, Electrical Engineering Program Coordinator
walter.collett@wku.edu
270-745-2016

1. Identification of course:

- 1.1 Course prefix (subject area) and number: EE380
- 1.2 Course title: Microprocessors

2. Current prerequisites:

Prerequisite(s): EE 180 and CS 239 with a grade of C or better and EE 210.

3. Proposed prerequisites:

Prerequisite(s): EE 210, EE 180 (C or better), and
CS 239 (C or better) or CS 180 (C or better)

4. Rationale for the revision of prerequisites:

CS 180 (Computer Science I) is often taken by CS majors and Gatton students, and it covers much of the same material as CS 239 (Problem Solving with Computational Techniques) — algorithmic approaches to problem solving, implemented in a high level programming language. This adaptation has been handled via overrides and exceptions for several semesters; it's something that can now be embedded in the normal systems.

This change should also make it easier for computer science majors and transfer students to take Microprocessors, since Computer Science I is a regularly required course for CS here and elsewhere.

5. Effect on completion of major/minor sequence:

None.

6. Proposed term for implementation:

As soon as possible.

7. Dates of prior committee approvals:

School of Engineering and Applied Sciences

Ogden College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

3/23/18

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

Contact Person: Walter Collett, walter.collett@wku.edu, 5-2016

1. Identification of program:

- 1.1 Current program reference number: 537
- 1.2 Current program title: Electrical Engineering
- 1.3 Credit hours: 58

2. Identification of the proposed program changes:

- Add EE 436 to the list of approved EE Technical electives

3. Detailed program description:

| Current list of approved EE Technical electives (12 hours required): | Proposed list of approved EE Technical electives (12 hours required): |
|--|---|
| EE 405 – EE Senior Research Seminar | EE 405 – EE Senior Research Seminar |
| EE 410/411 – Computer Design and Lab | EE 410/411 – Computer Design and Lab |
| EE 432 – Power Systems II | EE 432 – Power Systems II |
| EE 443 – Microfabrication and MEMS | EE 443 – Microfabrication and MEMS |
| EE 445 – Advanced Electronics | EE 445 – Advanced Electronics |
| EE 450/451 – Digital Signal Processing and Lab | EE 450/451 – Digital Signal Processing and Lab |
| EE 461 – Discrete Control Systems | EE 461 – Discrete Control Systems |
| EE 462 – Special Topics in Control | EE 462 – Special Topics in Control |
| EE 470/475 – Communications and Lab | EE 470/475 – Communications and Lab |
| EE 477 – Numer. Techniques in Electromagnetics | EE 477 – Numer. Techniques in Electromagnetics |
| EE 479 – Optoelectronics | EE 479 – Optoelectronics |
| EE 480 – Embedded Systems | EE 480 – Embedded Systems |
| EE 490 – Robotics | EE 490 – Robotics |
| ENGR 360 – System Dynamics and Modeling | ENGR 360 – System Dynamics and Modeling |
| | EE 436 – Electric Machines and Drives |

4. Rationale for the proposed program change:

- **Add EE 436 to the list of approved EE Technical electives**
This course was originally created to be offered as an EE technical elective, due to the importance of the subject matter and its relevance to electrical engineers.

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

Fall 2018

6. Dates of prior committee approvals:

| | |
|------------------------------------|----------------|
| SEAS | <u>4/23/18</u> |
| OCSE College Curriculum Committee | _____ |
| Undergraduate Curriculum Committee | _____ |
| University Senate | _____ |

College Name
Department Name
Proposal to Revise A Program
(Action Item)

Contact Person: Stacy Wilson, Stacy.wilson@wku.edu, 5-6394

1. Identification of program:

- 1.1 Current program reference number: 575
- 1.2 Current program title: Technology Management
- 1.3 Credit hours: 120

2. Identification of the proposed program changes:

Proposed program title: Engineering Technology Management

3. Detailed program description:

No revisions to required courses are proposed.

4. Rationale for the proposed program change: Several years ago, the graduate program in technology management was renamed “Engineering Technology Management” to better reflect the work the students did after graduation. It is desired to change the undergraduate program title for similar reasons. Also, it is believed that this will aid in the recruiting process for this program.

5. Proposed term for implementation and special provisions (if applicable): As soon as possible

6. Dates of prior committee approvals:

| | |
|--|----------------|
| School of Engineering and Applied Sciences | <u>4/23/18</u> |
| Ogden College Curriculum Committee | _____ |
| Undergraduate Curriculum Committee | _____ |
| University Senate | _____ |