

## LETTER OF NOTIFICATION – 11

### RECONFIGURATION OF EXISTING DEGREE PROGRAMS (Consolidation or Separation of Degrees to Create New Degree)

1. Institution submitting request: Arkansas Tech University
2. Contact person/title: Bruce Chehroudi, Head of Mechanical Engineering Department
3. Title(s) of degree programs to be consolidated/reconfigured: Master of Engineering
4. Current CIP Code(s)/Current Degree Code(s): 14.0101
5. Proposed title of consolidated/reconfigured program:  
  
Master of Engineering in Mechanical Engineering  
Master of Engineering in Electrical Engineering  
(Master of Engineering teach out through spring 2019)
6. Proposed CIP Code for new program: 14.1901 (for ME) and 14.1001 (for EE)
7. Proposed Effective Date: August 15, 2017
8. Reason for proposed program consolidation/reconfiguration:  
[Indicate student demand, (projected enrollment) for the proposed program and document that the program meets employer needs]

The name change is in best interest of students for the offering degree differentiation. Students already take one of two concentrations to better match their undergraduate education and their professional engineering goals. This differentiation will best identify their education and engineering capabilities to potential employers and PhD programs.

In addition, the title change permits better targeted marketing for the Master of Engineering programs.

9. Provide **current** and **proposed** curriculum outline by semester. Indicate total semester credit hours required for the proposed program. Underline new courses and provide new course descriptions. (If existing courses have been modified to create new courses, provide the course name/description for the current/existing courses and indicate the related new/modified courses.) Identify required general education core courses with an asterisk. **There are no changes in the curriculum. The current and proposed curriculums are identical.**

**Current Curriculum Outline  
(Teach Out Date through Spring 2019)**

**Master of Engineering – Electrical Option**

<b>Semester 1</b> *COMM 5063 Organizational Communications ELEG 6XXX ELEG 6XXX	<b>Semester 2</b> *MATH 5XXX ELEG 6XXX ELEG 5XXX or 6XXX
<b>Semester 3</b> ELEG 6XXX ELEG 6XXX ELEG 5XXX or 6XXX	<b>Semester 4</b> *MATH 5XXX *MGMT 5203 Project Management ELEG 6XXX

\*Common Core

**Master of Engineering – Mechanical Option**

<b>Semester 1</b> *COMM 5063 Organizational Communications MCEG 6XXX MCEG 6XXX	<b>Semester 2</b> *MATH 5XXX MCEG 6XXX MCEG/ELEG 5XXX or 6XXX
<b>Semester 3</b> MCEG 6XXX MCEG/ELEG 6XXX MCEG/ELEG 5XXX	<b>Semester 4</b> *MATH 5XXX *MGMT 5203 Project Management MCEG/ELEG 5XXX or 6XXX

\*Common Core

Attachments:

1. Master Level Course Descriptions Electrical Engineering
2. Master Level Course Descriptions Mechanical Engineering
3. Master Level Mathematics Core Course Electives Description
4. Remaining Core Curriculum Course Descriptions

**Degree Requirements**

1. A minimum of 36 semester credit hours of coursework at the graduate level must be completed which includes 12 semester hours in the common core, and an additional 24 semester hours which meet the requirements of one of the concentration areas listed below. A minimum of 18 semester hours must be at the 6000 level.

**Common Core (12 hours):**

MGMT 5203 - Project Management  
 COMM 5063 - Organizational Communication

6 hours from:

MATH 5103 - Linear Algebra II  
 MATH 5153 - Applied Statistics II  
 MATH 5273 - Complex Variables  
 MATH 5243 - Differential Equations II  
 MATH 5343 - Partial Differential Equations II

**Concentration Area (24 hours):**

**Electrical Engineering**

In addition to the common core, 24 semester credit hours in graduate Electrical Engineering courses are required with a minimum of 18 semester hours at the 6000 level.

**Mechanical Engineering**

In addition to the common core, 24 semester credit hours are required with a minimum of 18 hours of graduate engineering coursework and 12 hours of MCEG graduate courses.

2. A minimum cumulative grade point average of 3.00 must be achieved on all graduate work attempted at Arkansas Tech University. A maximum of six semester hours of "C" grades can be counted toward degree requirements. Students receiving more than six hours of "C" grades or more than three hours of "D" or "F" grades is subject to dismissal from the program. (Refer to "Academic Probation and Suspension" in the graduate catalog.)

3. Successful completion of a comprehensive final examination, consisting of both a written and oral portion and administered by the student's Graduate Advisory Committee, is required in addition to the coursework requirements above. This exam will be administered during the student's final semester and may be attempted a maximum of three times.

4. Completion of all requirements of the degree must be accomplished within six years from the time of admission to the program.

5. A minimum of 27 semester hours of graduate course work completed at Arkansas Tech University.

## Proposed Curriculum Outline

### Master of Engineering Electrical Engineering

<b>Semester 1</b> *COMM 5063 Organizational Communications ELEG 6XXX ELEG 6XXX	<b>Semester 2</b> *MATH 5XXX ELEG 6XXX ELEG 5XXX or 6XXX
<b>Semester 3</b> ELEG 6XXX ELEG 6XXX ELEG 5XXX or 6XXX	<b>Semester 4</b> *MATH 5XXX *MGMT 5203 Project Management ELEG 6XXX

\*Common Core

Attachments:

1. Master Level Course Descriptions Electrical Engineering
3. Master Level Mathematics Core Course Electives Description
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MGMT 5203 - Project Management  
 COMM 5063 - Organizational Communication

6 hours from:

MATH 5103 - Linear Algebra II  
 MATH 5153 - Applied Statistics II  
 MATH 5273 - Complex Variables  
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In addition to the common core, 24 semester credit hours in graduate Electrical Engineering courses are required with a minimum of 18 semester hours at the 6000 level.

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## Proposed Curriculum Outline

### Master of Engineering Mechanical Engineering

<b>Semester 1</b> *COMM 5063 Organizational Communications MCEG 6XXX MCEG 6XXX	<b>Semester 2</b> *MATH 5XXX MCEG 6XXX MCEG/ELEG 5XXX or 6XXX
<b>Semester 3</b> MCEG 6XXX MCEG/ELEG 6XXX MCEG/ELEG 5XXX	<b>Semester 4</b> *MATH 5XXX *MGMT 5203 Project Management MCEG/ELEG 5XXX or 6XXX

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Attachments:

2. Master Level Course Descriptions Mechanical Engineering
3. Master Level Mathematics Core Course Electives Description
4. Remaining Core Curriculum Course Descriptions

### Degree Requirements

1. A minimum of 36 semester credit hours of coursework at the graduate level must be completed which includes 12 semester hours in the common core, and an additional 24 semester hours which meet the requirements listed below. A minimum of 18 semester hours must be at the 6000 level.

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In addition to the common core, 24 semester credit hours are required with a minimum of 18 hours of graduate engineering coursework and 12 hours of MCEG graduate courses.

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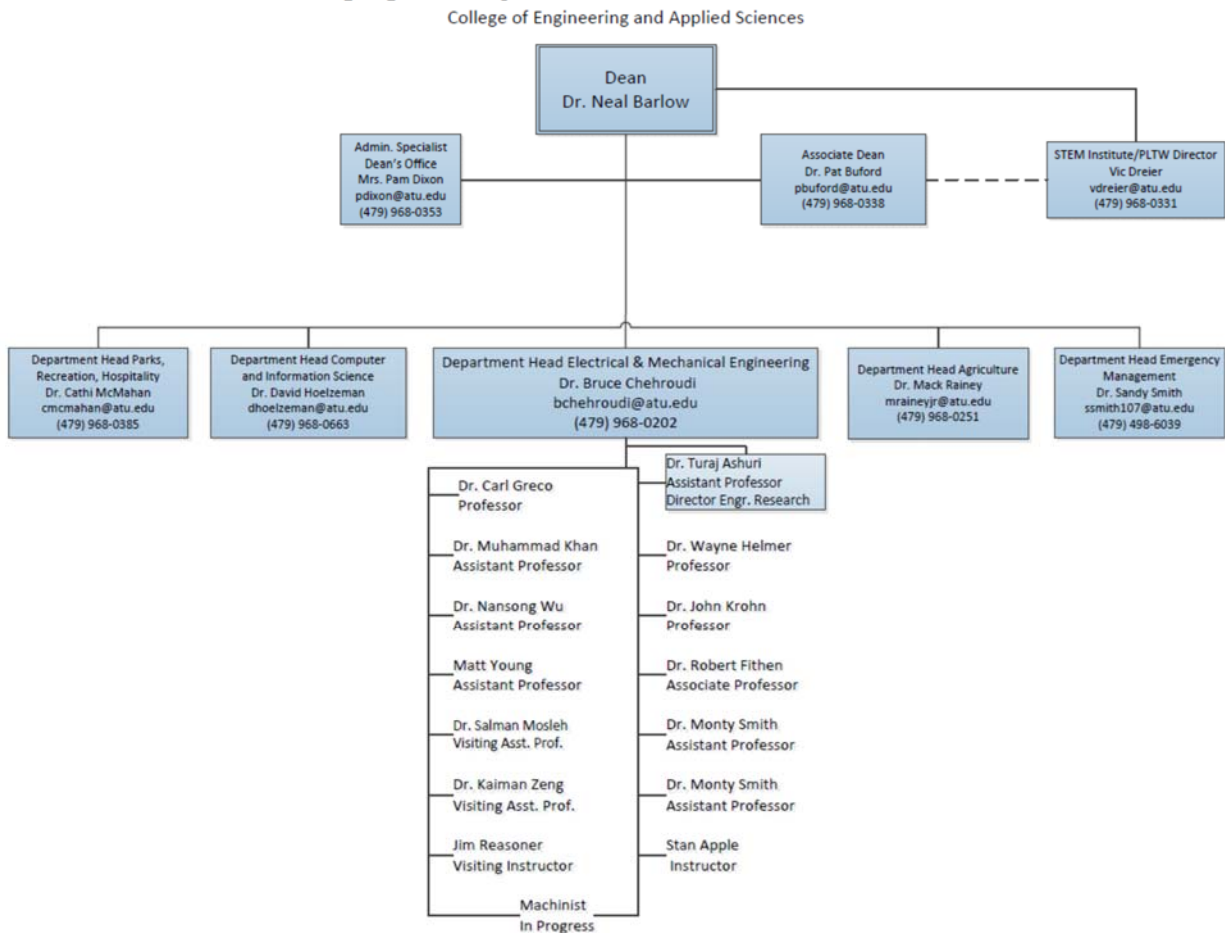
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10. Provide program budget. Indicate amount of funds available for reallocation.  
No change

11. Provide current and proposed organizational chart.



12. Institutional curriculum committee review/approval date: Graduate Council – 10/18/16

13. Are the existing degrees offered off-campus or via distance delivery? No

14. Will the proposed degree be offered on-campus, off-campus, or via distance delivery? If yes, indicate mode of distance delivery. On-campus

15. Provide documentation that proposed program has received full approval by licensure/certification entity, if required. (A program offered for teacher/education administrator licensure must be reviewed/approved by the Arkansas Department of Education prior to consideration by the Coordinating Board; therefore, the Education Protocol Form also must be submitted to ADHE along with the Letter of Notification).

ABET accredited (see [www.abet.org](http://www.abet.org))

16. Provide copy of e-mail notification to other institutions in the area of the proposed program.

Provided as Attachment 5.

No responses to the email requesting questions or concerns were received as of 11/14/16 at 5:00 p.m.

17. List institutions offering similar program and identify the institution(s) used as a model to develop the proposed program.

Duke University, University of Arkansas (Fayetteville), University of Colorado (Denver), University of Alabama

18. Provide scheduled program review date (within 10 years of program implementation).

Once the program proceeds through governance the program will be reviewed. The next ABET accreditation visit occurs in 2019.

19. Provide additional program information if requested by ADHE staff.

President/Chancellor Approval Date: December 15, 2016

Board of Trustees Notification Date: December 15, 2016

Chief Academic Officer: Dr. Mohamed Abdelrahman Date: December 15, 2016

## Attachment 1: Master Level Course Descriptions Electrical Engineering

### ELEG 5113: Digital Signal Processing

Prerequisites: ELEG 3123 and 3133.

The study of discrete-time signals and systems, convolution, z-transform, discrete-time Fourier transform, analysis and design of digital filters. Students write software for real-time implementation of selected signal processing algorithms using DSP microcomputer hardware.

Note: May not be taken for credit after completion of ELEG 4113.

### ELEG 5133: Advanced Digital Design

Prerequisites: ELEG 2130 and 2134.

A project oriented course in which students develop and test custom digital integrated circuits (IC's). An overview of IC design systems and manufacturing processes is presented. Economics of IC production are discussed. Hardware Description Languages (HDL's) are studied. Students design and implement custom IC's using schematic based entry and HDL's.

Note: May not be taken for credit after completion of ELEG 4133.

### ELEG 5153: Communication Systems II

Prerequisite: ELEG 4143.

Continuation of ELEG 4143. Design and analysis of analog and digital communication systems, taking into account the effects of noise. Random variables, random processes, analog and digital communication systems in the presence of noise.

Note: May not be taken for credit after completion of ELEG 4153.

### ELEG 5313: Modern Control Systems

Prerequisite: ELEG 4303.

A continuation of ELEG 4303 Control Systems. Topic include: frequency response design, state space analysis, controllability, observability, state space design, robustness and introduction to digital control.

Note: May not be taken for graduate credit after completion of ELEG 4313.

### ELEG 6103: Power Electronics

Prerequisite: ELEG 4103 or permission of instructor.

The course will cover the following topics: Characteristics of thyristors, sequential switching, triggering and synchronizing circuitry. Conversion and control of electric power, design of electric power controller; rectifiers, converters, inverters, and cycloconverters, controlling techniques for DC and AC machines will be presented.

### ELEG 6123: Advanced Semiconductors

Prerequisites: ELEG 3003 and ELEG 4103 or permission of the instructor

An in depth overview of coverage of semiconductor devices and materials. The course presents and examines semiconductor fundamentals required in the operational analysis of microelectronic devices.

### ELEG 6133: Introduction to Nanoelectronics

This course is designed to give the graduate student an introduction to the engineering problems and concepts that are involved in electrical and electromechanical devices at the nanoscale. The course will cover the wave properties of matter, quantum mechanics, optical properties of materials, nanolithography, and various nanostructure devices such as field-effect transistors, light-emitting diodes and lasers and nanoelectromechanical devices.

### ELEG 6143: Digital Image Processing

Prerequisites: ELEG 3133, ELEG 4113, ELEG 3003 and COMS 2104 or permission of the instructor

The course will cover the following topics: components of digital image processing systems, histograms, point processing, neighborhood processing, image restoration, image segmentation, 2-D discrete Fourier transform, image data compression, color image processing.

### ELEG 6153: Statistical Signal Processing

Prerequisites: ELEG 4113, ELEG 3003, COMS 2104 or permission of the instructor

The course will cover the following topics: minimum variance unbiased estimators, Cramer-Rao lower bound, maximum likelihood estimators, Least Squares, Kalman filter.



ELEG 6163: Biomedical Signal Processing

Prerequisites: ELEG 4113 or permission of the instructor

The study, analysis, and implementation of advanced method in signal processing applied to biomedical signals and systems. Engineers working in the biomedical field routinely design and build signal processing algorithms and devices to analysis biomedical signals for diagnostic analysis and prosthetic control. In order to appropriately design systems for biomedical signal processing it is necessary to have a basic understanding of the origin and characteristic of these signals. The course will focus on single dimensional deterministic and random signal processing.

ELEG 6303: Robotics

Prerequisites: ELEG 3133, ELEG 4303, ELEG 3003, COMS 2104 or permission of the instructor

The course will cover the following topics: robotics paradigms, path planning, motion planning, configuration space, potential functions, localization and mapping, sensors and actuators.

ELEG 6881, 6882, 6883, 6884: Special Topics in Engineering

Special topics in engineering relating to current engineering topics not covered in other courses.

Note: May be repeated for credit if course content varies.

ELEG 6891, 6892, 6893, 6894, 6895, 6896: Independent Study

Prerequisites: Completion of 18 hours toward program requirements and approval of advisor

Students will complete an electrical engineering project approved by their Advisory Committee. The project must include elements of engineering design and project management with a subject relevant to electrical engineering. Successful completion of the project will include a professional report and full presentation of the project findings/results.

## Attachment 2: Master Level Course Descriptions Mechanical Engineering

### MCEG 5043: Physical Metallurgy

Prerequisites: MCEG 2023, MCEG 3013, and MCEG 3313.

This course provides the student with an in-depth background to the mechanisms and applications of dislocation motion, crystal plasticity, phase transformations and solidification processes. Common industrial and experimental processes are studied for both ferrous and non-ferrous materials.

Note: May not be taken for credit after completion of MCEG 4043.

### MCEG 5053: Corrosion Principles

Prerequisites: MCEG 2023, MCEG 3313, CHEM 2124.

This course provides the student with an introductory study on the principles, mechanisms and chemistry of material corrosion. The study will extend to material failures linked to corrosion processes and effects of environment on corrosion potential and kinetics.

Note: May not be taken for credit after completion of MCEG 4053.

### MCEG 5323: Power Plant Systems

Prerequisites: MCEG 3313, MCEG 4403.

A study of the design and operation of steam-electric power plant components and systems. Fossil and renewable energy plants are emphasized.

Note: May not be taken for credit after completion of MCEG 4323.

### MCEG 5343: Internal Combustion Engines

Prerequisites: MCEG 3313, MCEG 4403.

A study of the operating and design principles of internal combustion engines. The course will cover combustion cycles, emissions and performance analysis and testing.

Note: May not be taken for credit after completion of MCEG 4343.

Lecture three (3) hours with lab exercises.

### MCEG 5413: Finite Element Analysis

Prerequisites: ELEG 2103, MCEG (ELEG) 3003, and MCEG 3013.

Introduction to approximate methods using finite elements. Development of the finite element method using variational formulations. Applications include machine design, mechanical vibrations, heat transfer, fluid flow, and electromagnetics.

### MCEG 5453: Energy Management

Prerequisites: MCEG 3313, MCEG 4403, MCEG 4443, or consent of instructor.

Energy management in commercial building and industrial plants. Utility rate structures. Sources of primary energy. Energy conversion devices. Prime movers of energy. Heat. Electricity. Lighting. HVAC Equipment. Building envelope. Electric motors. Estimating energy savings. Economic justification. Energy auditing.

### MCEG 5463: Heating, Ventilating, and Air-Conditioning Design

Prerequisite: MCEG 3313.

A study of the principles of human thermal comfort including applied psychrometrics and air-conditioning processes. Fundamentals of analysis of heating and cooling loads and design of HVAC systems.

Note: May not be taken for graduate credit after completion of MCEG 4463.

### MCEG 5473: Mechanical Vibrations

Offered: approximately, every other year

Prerequisites: MCEG 2033, MATH 3243.

The study of free and forced vibration of single degree-of-freedom systems, response to harmonic, periodic and non-periodic excitations. Multi degree-of-freedom systems and matrix methods are explored. Computational techniques for predicting system response of continuous systems are introduced.

Note: May not be taken for credit after completion of MCEG 4473.

MCEG 5503: Nuclear Power Plants I

Prerequisites: MCEG 3503, MCEG 4403.

A study of the various types of nuclear reactor plants including the methods used for energy conversion. Relative advantages/disadvantages of various plant types investigated.

Note: May not be taken for credit after completion of MCEG 4503.

MCEG 5993: Special Problems in Engineering I

Prerequisite: Permission of instructor

A individual or group study in an advanced area of engineering under the direction of a faculty advisor. May be taught in conjunction with an associated MCEG 4993 section.

Note: May not be taken for credit after gaining credit for a 4993 section with the same topic.

MCEG 6013: Continuum Mechanics

Offered: Once every two years

Prerequisites: Graduate admission and MCEG 3013 or equivalent

Development of field equations and generalized constitutive expressions for fluid and solid continua. Topics include: tensor analysis, kinematics, conservation of mass and momentum, and invariance and symmetry principles.

MCEG 6023: Elasticity

Offered: Once every two years

Prerequisites: MCEG 6013.

Analysis of stress and strain in two and three dimensions, equilibrium and compatibility equations, torsion of non-circular members, and variational methods.

MCEG 6323: Energy Systems

Prerequisites: MCEG 4433, MCEG 4403 or permission of instructor.

A study of various energy sources and the production of usable energy from them. Conventional and alternative energy sources are covered as well as economic environmental concerns.

MCEG 6443: Advanced Heat Transfer

Prerequisites or Co-requisites: MCEG 3313, 4403, 4443, or permission of instructor.

A study of the advanced principles of heat transfer: numerical methods in heat transfer, advanced boundary layer theory, advanced thermal radiation topics, and heat exchangers.

MCEG 6503: Reactor Physics

Prerequisites: PHYS 3213, MCEG 3503, MATH 5243.

A study of the fundamental physical principles in the operation and design of nuclear reactors. Includes neutron-nucleus interactions, neutron energy spectra and energy dependent cross sections, neutron transport and diffusion theory, multi-group approximations, criticality calculations, and reactor analysis and design methods.

MCEG 6513: Radiation Measurement

Prerequisites: MCEG 3503, MCEG 3512.

The study of radiation techniques and equipment used by scientists and engineers. Topics of interest will include techniques and equipment for detecting ionizing radiation below about 20 MeV, coincidence counting methods, and reactor laboratory experiments (as available).

Lecture two (2) hours, lab three (3) hours.

MCEG 6523: Nuclear Materials

Prerequisites: MCEG 2023 and MCEG 3503.

A study of the properties of materials utilized in nuclear reactors, shielding systems, and other systems exposed to radiation. Emphasis will be placed on understanding and mitigation the damage of such materials by neutron and gamma radiation.

MCEG 6533: Radiation Interactions and Shielding

Prerequisites: MCEG 3503, MCEG 3523.

Radiation Interactions and Shielding. Basic principles of radiation interactions, transport and shielding. Radiation sources, nuclear reactions, radiation transport, photon interactions, dosimetry, and shielding design will be covered.

MCEG 6881, 6882, 6883: Special Topics in Engineering

Prerequisite: Permission of instructor.

Special topics in engineering relating to current engineering topics not covered in other courses.

Note: May be repeated for credit if course content varies.

MCEG 6891, 6892, 6893, 6894, 6895, 6896: Independent Study

Prerequisites: Completion of 18 hours toward program requirements, approval of advisor.

Students will complete an engineering project approved by their Advisory Committee. The project must include elements of engineering design and project management with a subject relevant to the student's program of study.

Successful completion of the project will include a professional report and full presentation of the project findings/results.

### Attachment 3: Master Level Mathematics Electives Core Course Descriptions

#### MATH 5103 Linear Algebra II

Prerequisite: MATH 4003 or consent of the department of mathematics.

A continuation of MATH 4003 with emphasis on abstract vector spaces, inner product spaces, linear transformations, kernel and range, and applications of linear algebra.

Note: MATH 5103 may not be taken for credit after completion of MATH 4103 or equivalent.

#### MATH 5153 Applied Statistics II

Prerequisite: MATH 3153.

This course is a continuation of Math 3153 with emphasis on experimental design, analysis of variance, and multiple regression analysis. Students will be required to design and carry out an experiment, use a current statistical software package to analyze the data, and make inferences based upon the analysis.

Note: Math 5153 may not be taken for credit after completion of Math 4153 or equivalent.

#### MATH 5243: Differential Equations II

Prerequisites: MATH 3243 and MATH 4003 or consent of the instructor.

A continuation of MATH 3243 with emphasis on higher order and systems of differential equations.

#### MATH 5273: Complex Variables

Prerequisite: MATH 2943.

An introduction to complex variables. This course will emphasize the subject matter and skills needed for applications of complex variables in science, engineering, and mathematics. Topics will include complex numbers, analytic functions, elementary functions of a complex variable, mapping by elementary functions, integrals, series, residues and poles, and conformal mapping.

Note: May not be taken for credit after the completion of MATH 4273 or equivalent.

#### MATH 5343: Introduction to Partial Differential Equations

Prerequisites: MATH 2934 and MATH 3243.

This course is an introduction to partial differential equations with emphasis on applications to physical science and engineering. Analysis covers the equations of heat, wave, diffusion, Laplace, Dirichlet and Neumann equations.

Course is suitable for senior level or first year graduate students in Mathematics, Physics, and Engineering.

## Attachment 4: Remaining Core Curriculum Course Descriptions

### COMM 5063: Organizational Communication

Theories and practices of organizational communication are examined from a critical and historical perspective. Issues related to the personal, relational, cultural, group, business, global, and ethical dimensions of everyday communication practices are analyzed. Includes lecture, discussion, research, and group projects.

Note: May not be taken for credit after the completion of COMM 4063.

### MGMT 5203: Project Management

Prerequisites: Graduate standing, BUAD 2053 or higher-level math course, BUAD 2003 or COMS 2003 or higher level microcomputer applications course, or permission of the instructor.

This course explores the techniques of organizing the main elements of project management: people, cost, schedule, and scope. The course emphasis is aimed toward a practical understanding of Project Management for future business leaders and engineers. Students will learn to utilize information technology that aids in the visualization and documentation of the project planning and management process.

Note: May not be taken for credit after MGMT 4203.

Attachment 5: Sample email to other Institutions

**From:** David Underwood

**Sent:** October 11, 2016 11:29 AM

**To:** Dr. AShok Saxena; Dr. Ben Johnson; Dr. Dale Bower; Dr. Georgia Hale; Dr. Gina Hogue; Dr. Jacquelyn McCray; Dr. Jonathan Gleen; Dr. Lynita Cooksey; Dr. Michael Moore; Dr. Mohamed Abdelrahman; Dr. Peggy Doss; Dr. Stephanie Gardner; Dr. Stephen Adkison; Dr. Steven Runge; Dr. Terry Martin; Dr. Zulma Toro; Mrs. Bonnie Harmon; Ms. Barbara Coker; Ms. Elizabeth Bard; Ms. Julie Bates; Ms. Kim Bradford; Ms. Rhonda Voss

**Cc:** Dr. Mohamed Abdelrahman; Rick Massengale; Pat Chronister; Jana Crouch; Karen Riddell; Jeanne Jones ([Jeanne.Jones@adhe.edu](mailto:Jeanne.Jones@adhe.edu))

**Subject:** Notification of Intent to Change an Existing Degree Program

This email is notification that Arkansas Tech University will propose a change to an existing Master of Engineering degree. The proposal is to recognize the specialty areas within engineering by offering a Master of Engineering in Electrical Engineering and a Master of Engineering in Mechanical Engineering. The change will be effective Summer 2017, pending appropriate approvals. Arkansas Tech University and is interested in receiving comments or feedback from you regarding the proposed program change.

Please respond to this email only if you have questions or concerns regarding this proposed degree plan by sending your response to Dr. David Underwood, Associate Vice President for Academic Affairs ([dunderwood@atu.edu](mailto:dunderwood@atu.edu))

David G. Underwood, Ph.D.  
Professor of Education  
Associate Vice President for Academic Affairs  
Arkansas Tech University