

UNIVERSITY CURRICULUM COMMITTEE  
February 17, 2011

The University Curriculum Committee met on Thursday, February 17 at 3:00 p.m. in the Dean's Conference Room, Derryberry Hall.

Members present:

Dr. Jack Armistead  
Dr. Curtis Armstrong  
Dr. Sue Bailey  
Dr. Jeff Boles  
Mr. Ward Doubet  
Ms. Edith Duvier  
Dr. Kurt Eisen  
Dr. Ahmed Elsayy  
Dr. Dan Fesler  
Ms. Julie Galloway  
Dr. Bobby Hodum  
Dr. Darrell Hoy  
Dr. David Huddleston  
Dr. Sharon Huo  
Dr. Steve Isbell  
Dr. James Jordan-Wagner

Dr. Homer Kemp  
Mr. Ted LaBar  
Dr. Marketta Laurila  
Dr. Roy Loutzenheiser  
Ms. Beth Mannle  
Dr. Allan Mills  
Ms. Deanna Nipp-Kientz  
Dr. P.K. Rajan  
Dr. James Raymondo  
Dr. Jeff Roberts  
Dr. Stephen Robinson  
Dr. Barry Stein  
Ms. Janet Whiteaker  
Ms. Jerri Winningham  
Mr. Daniel Mayo  
Mr. Clay Stubblefield

Members absent:

Dr. Pat Bagley  
Dr. Susan Elkins  
Dr. Billye Foster  
Dr. Sherry Gaines  
Dr. Mike Harrison  
MAJ Brett Martin  
Dr. Francis Otuonye  
Dr. Paul Semmes

Dr. Matt Smith  
Dr. Mark Stephens  
Ms. Jessica Bryant  
Ms. Megan Carter  
Ms. Jenna Crunk  
Ms. Chole Jeffries  
Mr. Isaac Keeble  
Mr. Kyle Koser

Official representatives:

Dr. Mario Oyanander for Dr. Arce  
Ms. Christina Turnbow for Dr. Barfield  
Dr. Michael Clark for Dr. Barnes

Dr. Christy Carter for Dr. Combs  
Dr. Pat Jordan for Dr. Peach  
Ms. Denise Hensley for Ms. Rogers  
Dr. Sheikh Ghafoor for Dr. Talbert

Guests:

## **SUMMARY OF PROCEEDINGS**

1. Changes in prerequisites, course descriptions.

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From: MUED 3110 Materials and Methods in Music, K-6. Lec. 3. Credit 3.

To: MUED 3110 Materials and Methods in Music, **K-5**. Lec. 3. Lab. 1. Credit 3.

Prerequisite: Admission to Teacher Education Program. This course will explore materials, methods and techniques used in teaching general music to children in grades Kindergarten through five. Public school field experience required.

From: MUED 3130 Materials and Methods in Instrumental Music, 7-12. Lec. 3. Credit 3.

To: MUED 3130 Materials and Methods in Instrumental Music, **6-12**. Lec. 3. Lab. 1. Credit 3.

Prerequisite: Admission to Teacher Education Program. Intended for the instrumental music education major, this course will explore a variety of materials, methods and techniques that can be used to build and maintain successful school band and orchestra programs. Public school field experience required.

From: MUED 3140 Materials and Methods in Vocal Music, 7-12. Lec. 3. Credit 3.

To: MUED 3140 Materials and Methods in Vocal Music, **6-12**. Lec. 3. Lab. 1. Credit 3.

Prerequisite: Admission to Teacher Education Program. Intended for the vocal/general music education major, this course is directed toward developing a working knowledge of teaching strategies necessary for successful choral/general music programs. Public school field experience required.

2. Curriculum change for Bachelor of Music in Music Education Instrumental/General - Strings (MUIN) and Course Change.

Delete: MUED 3730. String Pedagogy and Literature I.

Add: MUED 3735. String Pedagogy and Literature I.

Lec. 1. Lab. 2. Credit 2. (*new course*)

Techniques and methods used in developing a public school string education program. (Syllabus attached)

3. Change in prerequisites.

The following classes all currently require the successful completion of a Piano Exam skills test as a prerequisite:

- i. MUED 3110. Materials and Methods in Music, Grades K-6
- ii. MUED 3130. Materials and Methods in Instrumental Music, Grades 7-12.
- iii. MUED 3140. Materials and Methods in Vocal Music, Grades 7-12.
- iv. MUED 3230. Marching Band Techniques.
- v. MUED 3620. Fundamentals of Conducting.
- vi. MUED 3810. Practicum in Music Education I.
- vii. MUED 3830. Practicum in Music Education II, Instrumental.
- viii. MUED 3840. Practicum in Music Education II, Vocal.
- ix. MUS 3130. Form and Analysis.
- x. MUS 3210. Instrumentation.
- xi. MUS 3220. Jazz Composition and Arranging I.
- xii. MUS 3240. Choral Literature.
- xiii. MUS 4250. Recording Techniques.

From: Piano Exam (delete)

To: For all the above course descriptions, delete the words "Piano Exam" and add MUS 1024 to the list of prerequisites.

*Example:*

### **MUS 3130. Form and Analysis...**

*Old* – Prerequisites: MUS 2130 and Harmony/AT/Piano Exam.

*New* - Prerequisites: MUS 1024, 2130 and Harmony/AT Exam.

#### 4. Change in prerequisites.

From: MUS 3210. Instrumentation.

Lec. 2. Credit 2.

Prerequisites: MUS 2130, MUS 2140, MUS 4510, and Harmony/AT/Piano Exam.

To: Prerequisites: MUS 1024, MUS 2130, MUS 2140, MUS 4510, MUED 3620, and Harmony/AT/Exam.

#### 5. Change in course descriptions.

The following classes require passage of the PPST (Pre-Professional Skills Test) as a prerequisite:

1. MUED 3110. Materials and Methods in Music, Grades K-6
2. MUED 3130. Materials and Methods in Instrumental Music, Grades 7-12.
3. MUED 3140. Materials and Methods in Vocal Music, Grades 7-12.
4. MUED 3230. Marching Band Techniques.
5. MUED 3620. Fundamentals of Conducting.
6. MUED 3810. Practicum in Music Education I.
7. MUED 3830. Practicum in Music Education II, Instrumental.
8. MUED 3840. Practicum in Music Education II, Vocal.

From: PPST (all instances)

To: Praxis I exam (all instances)

#### 6. Updating titles of degree programs.

From: Bachelor of Music (MUS) Instrumental Licensure (MUIN), all instances.

To: Bachelor of Music (MUS) Instrumental/General Music K-12 Licensure (MUIN)

From: Bachelor of Music (MUS) Vocal/General Licensure (MUVO), all instances.

To: Bachelor of Music (MUS) Vocal/General Music K-12 Licensure (MUVO)

#### 7. Change in prerequisites.

To reflect the departmental [policy](#), the phrase “with a grade of C or better” will be added to existing prerequisite(s) for the following group of classes:

**MUS 1081. Improvisation I.** Lab. 2. Credit 1.

Prerequisites: MUS 1140 and MUS 1150 with a grade of C or better.

**MUS 1082. Improvisation II.** Lab. 2. Credit 1.

Prerequisite: MUS 1081 with a grade of C or better. Development of

**MUS 1140. Harmony II.** Lec. 3. Credit 3.

Prerequisite: MUS 1120 with a grade of C or better. Corequisite: MUS 1150.

**MUS 1150. Aural Techniques II.** Lab. 2. Credit 1.

Prerequisite: MUS 1130 with a grade of C or better. Corequisite: MUS 1140.

**MUS 2110. Harmony III.** Lec. 1. Lab. 2. Credit 2.

Prerequisite: MUS 1140 with a grade of C or better. Corequisite: MUS 2120.

**MUS 2130. Harmony IV.** Lec. 1. Lab. 2. Credit 2.

Prerequisite: MUS 2110 with a grade of C or better. Corequisite: MUS 2140.

**MUS 2140. Aural Techniques IV.** Lab. 2. Credit 1.

Prerequisite: MUS 2120 with a grade of C or better. Corequisite: MUS 2130.



**Add:** MUED 3630 Instrumental Conducting and Literature, 2 credits, to Junior Year.  
**Move:**



<sup>1</sup> This course not included in 120-hour curriculum.

<sup>2</sup> For these classes voice students substitute MUS 1210 and 1220 Diction for Singers I and II.

<sup>3</sup> This course to be selected in consultation with the student's advisor from the following list:

- BMGT 3630. Human Resource Management
- DS 3810. Business Applications of Microcomputers
- DS 3841. Management Information Systems
- FIN 3220. Intermediate Financial Management
- MKT 3650. Sales Management
- MKT 4500. Retail Marketing Management

<sup>4</sup> These courses fulfill the Social/Behavioral Science requirement for general education.

Music	63 hrs	53%
Business	24 hrs	20%
Upper Division	41 hrs	
Program Total	120 hr	

**Effective Date: Fall, 2011**

**Motion.** Dr. LaBar moved to approve the new option effective Fall 2011. The motion was seconded by Dr. Stein.

**6. Proposal for Program Changes in Bachelor of Music – MUIN and MUVO Options  
Withdrawn from the Department of Music and Art**



Performance based clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice.

**ARED 4872. Professional Seminar I.** Credit 5.

Corequisite: ARED 4871.

Seminar for residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners.

**ARED 4881. Residency II.** Credit 10.

Corequisite: ARED 4882.

Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional

cultures responded to these interactions. The majority of the course will focus on the nineteenth and twentieth centuries, but will consider earlier developments including the introduction of

**To be removed as required courses from the new M.E. 2011-12 Curriculum to make room for the above:**

1. CHEM 1120 General Chemistry II (4 cr-hr)
2. MATH 4510 Advanced Mathematics for Engineers (3 cr-hr)
3. ISE 3110 Principles of Engineering Economy (2 cr-hr)
4. ECE 3810/3860 Fund of Electrical Engineering, Lec & Lab (3 & 1 cr-hr) –  
Note: To be replaced by ECE 2010 Electric Circuits I (3 cr-hr) as a required course
5. ENGR 1020 Connections to Engineering and Technology (1 cr-hr) – To be moved outside the 128 cr-hr M.E. curriculum as only a University requirement

**New courses to be added to M.E. 2011-12 Curriculum:**

1. ME 3001 Mechanical Engineering Analysis (3 cr-hr) as an upgrade to ME 2001 Elem Mech Engr Analysis (2 cr-hr) by content addition and change
2. ME 3900 Design and Professionalism (3 cr-hr) as an upgrade to ME 3910 M.E. Seminar (1 cr-hr) by content addition and change

**Motion.** Dr. Hoy moved to approve the changes and additions effective Fall 2011. The motion was seconded by Dr. Elsayy.

Dr. Mills stated he will vote no on the proposal due to the fact that content of MATH 4510 was being included the new ME 3001 course.

A vote was taken with one vote against the proposal. The motion carried.

**11. For Information Only - Adding Prerequisite to UNIV 1020 equivalent courses from the College of Engineering**

In a memorandum dated February 3, 2011, approval was requested for the following:

Course Change:

Add prerequisite of "Freshman Standing" to CEE 1020, CHE 1010, CSC 1020, and ENGR 1020

**12. Approval of Course Addition and Changes from the Department of Civil and Environmental Engineering**

In a memorandum dated February 4, 2011, approval was requested for the following:

A. COURSE ADDITIONS:

CEE 3000. Civil Engineering Graphics. Lab 4. Credit 2.  
Prerequisite: Junior Standing. The course introduces students to the use of computer aided design and drafting software (CADD) and to instruct students in best practices for preparing Civil Engineering drawings.

B. Course Changes:

1) **From:**

CEE 2110. Engineering Mechanics – Statics. Lec. 3. Credit 3.

Prerequisite: ENGR 1120 and MATH 1920. Corequisite: PHYS 2110. Vector algebra, resultants, equilibrium, friction, centroids, inertia, trusses, machines and frames, beam shear and moments.

**To:**

CEE 2110. Engineering Mechanics – Statics. Lec. 3. Credit 3.  
Prerequisite: ENGR 1120, MATH 1920 and PHYS 2110 (PHYS 2110 may be taken concurrently). Vector algebra, resultants, equilibrium, friction, centroids, inertia, trusses, machines and frames, beam shear and moments.

2) **From:**

CEE 3020. Surveying.

Lec. 2. Lab. 2. Credit 3.

Prerequisites: SPCH2410 or PC2500 and Junior or Senior Standing. Professional topics in engineering, verbal technical communications.

4. ECE 4961. Capstone Design I. Lec.1. Lab. 6. Credit 3.  
Prerequisites: ECE 3060, ECE 2110, ECE 3010, ECE 3300, and ECE 4910. (ECE 4910 may be taken concurrently). The first in a sequence of two capstone design project courses. Student teams will complete an industry client-driven system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, implementation, testing, weekly reporting, documentation, and oral presentation.

#### Course Changes:

The following courses involve prerequisite and/or minor changes necessitated by the rearrangement of course and course number changes.

From:

ECE 2010. Electric Circuits I. Lec. 3. Credit 3.  
Prerequisites: MATH 1920, MATH 2120 and ECE 2000. (MATH 2120 and/or ECE 2000 may taken concurrently). Introduction to electric circuit quantities and components, systematic application of Ohm's and Kirchhoff's laws, superposition, Thévenin and Norton theorems, operational amplifiers, RL and RC transients, and circuit simulation with SPICE.

To:

ECE 2010. Electric Circuits I. Lec. 3. Credit 3.  
Prerequisites: MATH 1920 and MATH 2120. (MATH 2120 may taken concurrently). Introduction to electric circuit quantities and components, systematic application of Ohm's and Kirchhoff's laws, superposition, Thévenin and Norton theorems, operational amplifiers, RL and RC transients, and circuit simulation with SPICE.

From

ECE 2020. Electric Circuits II. Lec. 3, Credit 3.  
Prerequisites: ECE 2000, ECE 2010 and MATH 2120. Laplace transform methods for electric circuit analysis. Sinusoidal steady-state and power, mutual inductance, 3-phase circuits, frequency response, Bode plots, resonance and filters. Circuit simulation with SPICE

To:

ECE 2020. Electric Circuits II. Lec. 3, Credit 3.  
Prerequisites: ECE 2010 and MATH 2120. Laplace transform methods for electric circuit analysis. Sinusoidal steady-state and power, mutual inductance, 3-phase circuits, frequency response, Bode plots, resonance and filters. Circuit simulation with SPICE

From:

ECE 3010. Signals and Systems. Lec. 3. Credit 3.  
Prerequisites: ECE 2020 and MATH 2120  
Time-domain and frequency-domain analysis of signals and systems, applications of Fourier series, Fourier transform, and Laplace transform in circuits and systems; Analog filters.

To:

ECE 3010. Signals and Systems. Lec. 3. Credit 3.

Prerequisites: ECE 2010 and MATH 2120. Time-domain and frequency-domain analysis of signals and systems, applications of Fourier series, Fourier transform, and Laplace transform in circuits and systems; Analog filters.

From:

ECE 3160. Digital Systems Laboratory.

Lab 3. Credit 1.

Prerequisites: ECE 2060 and ECE 2110. Hardware considerations and performance of combinational and sequential digital devices including gates, flip-flops, multiplexors, and decoders.

To:

ECE 3160. Digital Systems Laboratory.

Lab 3. Credit 1.

Prerequisites: ECE 2011 and ECE 2110. Hardware considerations and performance of combinational and sequential digital devices including gates, flip-flops, multiplexors, and decoders.

From:

ECE 3260. Control System Laboratory.

Lab. 3. Credit 1.

Prerequisites: ECE 2060 and ECE 3210. Simulation of dynamic systems. Demonstration of control system analysis and design techniques using hardware experiments. (ECE 3210 may be taken concurrently with ECE 3260, flip-flops, multiplexors, and s using Tc.-03 jTfus 3210ki3 TDs7sls, m

Prerequisites: ECE 2060, ECE 3510. Simulation and design of phenomena and devices with EM fields and waves.

To:

ECE 3560. EM Simulation Laboratory.

Lab. 3. Credit 1.

Prerequisites: ECE 3060 and ECE 3510. Simulation and design of phenomena and devices with EM fields and waves.

From:

ECE 3660. Electric Power Laboratory.

Lab. 3, Credit 1.

Prerequisites: ECE 2060 and ECE3610. Operation of various power system components, design tests of transformers, speed control characteristics of various types of motors and generators, and computer simulation of power system operation.

To:

ECE 3660. Electric Power Laboratory.

Lab. 3. Credit 1.

Prerequisites: ECE 3060 and ECE3610. Operation of various power system components, design tests of transformers, speed control characteristics of various types of motors and generators, and computer simulation of power system operation

From:

ECE 3760. Telecommunications Laboratory.

Lab. 3. Credit. 1.

Prerequisites: ECE 2060 and ECE 3710. Telecommunication system measurements.

To:

ECE 3760. Telecommunications Laboratory.

Lab. 3. Credit 1.

Prerequisites: ECE 3060 and ECE 3710. Telecommunication system measurements.

From:

ECE 4020(5020). Digital Signal Processing.

Lec. 3. Credit 3.

Prerequisites: ECE 3020 and ECE 3120. Introduction to the theory and practice of discrete-time signals and systems. A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

To:

ECE 4020(5020). Digital Signal Processing.

Lec. 3. Credit 3.

Prerequisite: ECE 3020 and ECE 3120. (ECE 3120 may be taken concurrently). Introduction to the theory and practice of discrete-time signals and systems. A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

From:

ECE 4970. Senior Capstone Design II.

Lec. 1. Lab. 3. Credit 2.

Prerequisite: ECE 4960. The second in a sequence of two Senior capstone design project

Prerequisite: ECE 4961. The second in a sequence of two Senior capstone design project courses. Student teams will complete an industry client-driven system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, implementation, testing, weekly reporting, documentation, and oral presentation.

Curriculum Changes:

**A1. BSEE Curriculum**

Delete the following courses (total 10 hrs.):  
(number in parenthesis represents credit hours)  
ECE 2000(2), 2060(1), and 4960(2)  
One ECE lab elective (1 hr.)  
ISE 3920(3)  
ENGR 1020(1)

Add the following courses (total 10 hrs.):  
(Number in parenthesis represents credit hours)  
Math 2010(2), 2011(1)  
ECE 2011(1), 3060(1), 4910(1), 4961(3)  
CSC 2101(1)

**A2. BSCmpE Curriculum**

Delete the following courses (total 14 hrs.):  
(Number in parenthesis represents the credit hours)  
CSC 2120(3), 2121(1) and 3402(2)  
ECE 2000(2), 2060(1), 4960(2)  
ISE 3920(3)

Add the following courses (total 14 hrs.):  
(Number in parenthesis represents the credit hours)  
Math 2010(2) and 2011(1)  
CSC 2101(1), 3030(1), and 4200(3)  
ECE 2011(1), 3060(1), 4910(1), and 4961(3)

**Motion.** Dr. Rajan moved to approve the changes effective Fall 2011. The motion was seconded by Dr. Huo and carried.

**15. Approval of Course Change from the Department of Manufacturing and Industrial Technology**

In a memorandum dated February 03, 2011, approval was requested for the following:

**From:**

**MIT 3560. Advanced Welding.** Lec. 1. Lab. 4. Credit 3.  
Prerequisite: MIT 3460 or consent of instructor. An in-depth experience in welding and inspection procedures.

**To:**



**MIT 3560. Advanced Welding.**

**Lec. 2. Lab. 2. Credit 3.**

Prerequisite: **MIT 2063** or consent of instructor. An in-depth experience in welding and inspection procedures.

**From:**

**MIT 3710. Methods Design and Work Measurement.**

Lec. 2. Credit 2.

Prerequisite: Junior Standing, MIT 1110. Introduction to concepts and the practice of methods improvement and work measurement.

**To:**

**MIT 3710. Methods Design and Work Measurement.**

Lec. 2. Credit 2.

Prerequisite: Junior Standing, MIT 1110. Introduction to concepts and the practice of methods improvement and work measurement **for lean manufacturing.**

**From:**

**MIT 3730. Quality Assurance.**

Lec. 2. Credit 2.

Prerequisite: Junior Standing, MIT 1110. Methods for controlling the quality of materials and products in production systems.

**To:**

**MIT 3730. Quality Assurance.**

Lec. 2. Credit 2.

Prerequisite: Junior Standing, MIT 1110. **Using 6-Sigma** methods for controlling the quality of materials and products in production systems.

**Motion.** Dr. Elsayy moved to approve the changes effective Fall 2011. The motion was seconded by Dr. Oyanader and carried.

**16. Approval of Course Additions, Changes and Curriculum Change from the Department of Exercise Science , Physical Education and Wellness**

Supervised experience in authentic teaching of elementary and secondary physical education

EXPW 4870. Elementary School Student Teaching.	Credit 5.
EXPW 4880. Secondary School Student Teaching.	Credit 5.
EXPW 4890. Seminar, Education and Society.	Credit 2.
FOED 1820. Introductory Field Experience.	Lab. 3. Credit 1.
FOED 1822. Introductory Field Experience and Orientation.	Lab. 3. Credit 1.
PHED 1020. Swimming.	Credit 1.
PHED Activity Class	

Change:

Change ART or MUS 1030 (3) and Humanities/Fine Arts Elective (3) to Humanities / Fine Arts Elective (6).

**Motion.** Ms. Mannle moved to approve the changes effective Fall 2011. The motion was

D. Foreign Languages-Spanish Option 2, footnote #2 for Humanities/Fine Art Elective

“For the humanities requirement in this option, students must take one English literature course and may use HIST 1010-1020 for the **remaining** 6 hours of humanities credit, or they may take two English literature courses and one from the following: Art 1030, GERM ~~2510-2520~~, MUS 1030, FREN 2510, THEA 1030 or PHIL 1030.”

**Motion.** Dr. Laurila moved to approve the changes effective immediately. The motion was seconded by Dr. Kemp and carried.