

University Curriculum Committee  
March 17, 2011

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

Members present:

Dr. Jack Armistead  
Dr. Sue Bailey  
Dr. J.P. Barfield  
Dr. Dan Combs  
Mr. Ward Doubet  
Dr. Kurt Eisen  
Dr. Ahmed Elsayy  
Dr. Dan Fesler  
Dr. Sherry Gaines  
Ms. Julie Galloway  
Dr. Darrell Hoy  
Dr. Sharon Huo  
Dr. Steve Isbell  
Dr. Homer Kemp

Mr. Ted LaBar  
Dr. Marketta Laurila  
Ms. Beth Mannle  
Dr. P.K. Rajan  
Dr. James Raymondo  
Ms. Beth Rogers  
Dr. Doug Talbert  
Ms. Janet Whiteaker  
Ms. Jerri Winningham  
Mr. Kyle Koser  
Mr. Clay Stubblefield

Members absent:

Dr. Pedro Arce  
Dr. Pat Bagley  
Dr. Jeff Boles  
Dr. Susan Elkins  
Dr. Billye Foster  
Dr. Mike Harrison  
Dr. Bobby Hodum  
Dr. David Huddleston  
Dr. James Jordan-Wagner  
Dr. Roy Loutzenheiser  
MAJ. Brett Martin

Dr. Allan Mills  
Ms. Deanna Nipp-Kientz  
Dr. Francis Otuonye  
Dr. Paul Semmes  
Dr. Matt Smith  
Mr. Isaac Keebler  
Ms. Chloe Jeffries  
Ms. Jessica Bryant  
Ms. Jenna Crunk  
Ms. Megan Carter

Official representatives:

Dr. Ramachandran Natarajan for Dr. Armstrong  
Dr. Michael Clark for Dr. Barnes  
Ms. Angie Clark for Ms. Duvier  
Dr. Michael Best for Dr. Foster

Dr. Pat Jordan for Dr. Peach  
Dr. Kent Dollar for Dr. Roberts  
Dr. David Murdock for Dr. Robin  
Dr. Zachary Wilcox for Dr. Stein

Guests:

Ms. Jerry Bentley

**SUMMARY OF PROCEEDINGS**

- I. Approval of agenda
- II. Approval of February 17 minutes as corrected

- III. Approval of course additions, course and curriculum changes from the School of Human Ecology
- IV. Approval of course change from the Department of Foreign Languages
- V. Approval of curriculum change from International Business and Cultures
- VI. Approval of course addition from the Department of Earth Sciences
- VII. Approval of course changes from the Department of English and Communications Journalism
- VIII. Approval of course addition from the Department of English and Communications
- IX. Approval of course changes from the Department of Economics, Finance and Marketing
- X. Approval of course change from the Department of Civil and Environmental Engineering
- XI. Approval of course change from the Department of Mechanical Engineering
- XII. Approval of Mechatronics Concentration to BSME program
- XIII. Approval of Mechatronics Concentration to BSEE program
- XIV. Approval of course additions, changes and curriculum changes from the Department of Computer Science
- XV. Approval of CSIT concentration course and curriculum changes from the Department of Computer Science
- XVI. Approval of course addition from the School of Agriculture
- XVII. Approval of Ready2Teach curriculum changes from the College of Education
- XVIII. Approval of curricular changes in Bachelor of Music in Performance/Music Business from the Department of Music and Art
- XIX. Approval of course change from the Department of Music and Art
- XX. Approval of curriculum changes from the Whitson-Hester School of Nursing
- XXI. Election of 2011-12 Chairperson
- XXII. Learning Support Courses - Informational Only
- XXIII. Approval of course addition, course and curriculum changes from the Department of Manufacturing and Industrial Technology

### **1. Approval of Agenda**

**Motion.** Dr. Elsayy moved to approve the agenda as submitted. The motion was seconded by Dr. Laurila and carried.

### **2. Approval of February 17 Minutes as Corrected**

**Motion.** Mr. LaBar moved to approve the minutes. The motion was seconded by Dr. Elsayy.

Mr. LaBar requested a correction to Item # 4.9 Catalog Corrections of the Music and Art proposal, to state that MUIN majors must take MUS 1021 and MUS 1070.

A vote was taken, and the motion carried.

### **3. Approval of Course and Curriculum Changes from the School of Human Ecology**

In a memorandum dated March 2, 2011, approval was requested for the following:

#### Course Changes:

#### **I. COURSE CHANGES:**

##### **A. Child Development and Family Relations Concentration**

##### **1. From:**

HEC 3500. Development: Middle Childhood/Adolescence. Lec. 3. Cr. 3.

##### **To:**

HEC 3500. Development: Middle Childhood/Adolescence. Lec. 3. Cr. 3.

Prerequisite: C in HEC 2200 or consent of instructor.

- 2. From:**  
 HEC 3700: Development: Young Adulthood/Aging. Lec. 3. Cr. 3.  
 Prerequisite: HEC 1010.  
**To:**  
 HEC 3700: Development: Young Adulthood/Aging. Lec. 3. Cr. 3.  
 Prerequisite: B in HEC 3500 or consent of instructor.

- 3. From:**  
 HEC 4600. Family Development and Relationships. Lec. 3. Cr. 3.  
 Prerequisite: Junior or senior standing and HEC 3700.  
**To:**  
 HEC 4600. Family Development and Relationships. Lec. 3. Cr. 3.  
 Prerequisite: B in HEC 3700 or consent of instructor.

**B. Family and Consumer Sciences Education Concentration**

- 1. From:**  
 HEC 3810: Materials and Methods of Teaching Family and Consumer Sciences Credit 2  
**To:**  
 HEC 3811: Materials and Methods of Teaching Family and Consumer Sciences Credit 1

- 2. From:**  
 HEC 3840: Occupational Family and Consumer Sciences Credit 2  
**To:**  
 HEC 3841: Occupational Family and Consumer Sciences Credit 1

- 3. From:**  
 HEC 4830: Occupational Careers with Children Field Experience Credit 2  
**To:**  
 HEC 4833: Occupational Careers with Children Field Experience Credit 1

- 4. From:**  
 HEC 4831: Occupational Culinary Arts Field Experience Credit 2  
**To:**  
 HEC 4834: Occupational Culinary Arts Field Experience Credit 1

- 5. From:**  
 HEC 4832: Occupational Fashion and Fabric Field Experience Credit 2  
**To:**  
 HEC 4835: Occupational Fashion and Fabric Field Experience Credit 1

- 6. From:**  
 HEC 4870: Student Teaching in Family and Consumer Sciences Credit 5  
**To:**  
 HEC 4871: Residency I\* Credit 5  
 Catalog Description: 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

- 7. From:**

HEC 4880: Student Teaching in Family and Consumer Sciences Credit 5

**To:**

HEC 4881 Residency II\*

Credit 10

Catalog Description: Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice.

**8. From:**

HEC 4890: Seminar in Student Teaching

Credit 2

**To:**

HEC 4872 Professional Seminar I\*

Credit 5

Catalog Description: 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.

**A. Food, Nutrition and Dietetics Concentration**

**1. From:**

HEC 3270 Nutrition in Disease.

Credit 3

Prerequisites: Grade of C or better in HEC 2020 and BIOL 2350.

**To:**

HEC 3270 Nutrition in Disease.

Credit 3

Prerequisites: Grade of C or better in HEC 2020 and BIOL 2350 and admission to the HEC-DPD program.

**2. From:**

HEC 4200 (5200) Advanced Nutrition.

Credit 3

Prerequisites: HEC 2020, CHEM 3005, BIOL 2350

**To:**

HEC 4200 (5200) Advanced Nutrition.

Credit 3

Prerequisites: HEC 2020, CHEM 3005, BIOL 2350, admission to the HEC-DPD program.

**3. From:**

HEC 4991. Field Experience- Health Care.

Credit 6

Prerequisites: HEC 4242 and senior standing. Supervised work experience in a health care facility to develop medical nutrition therapy skills. Course may be repeated one time.

**To:**

HEC 4994. Field Experience- Health Care.

Credit 3

Prerequisites: HEC 4242, HEC 4272, and senior standing. Supervised work experience in a health care facility to develop medical nutrition therapy skills. Course may be repeated one time.

**II. COURSE ADDITIONS:**

**A. Family and Consumer Sciences Education Concentration**

HEC 4882 Professional Seminar II\*

Credit 2

Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

**B. Foods, Nutrition and Dietetics Concentration**

HEC 4272 Clinical Dietetics\* Lec 3., Credit 3  
 Catalog Description:  
 Prerequisites: HEC 4200, HEC 4271, HEC major, and senior standing.  
 Application of medical nutrition therapy in a supervised environment and practice setting. Preparation for HEC 4994 Field Experience.

### III. CURRICULUM CHANGES:

#### A. Human Ecology: Child Life Program

##### Course Deletion:

CFS 3600 Family, Community, and Professional Partnerships Credit 2

##### Course/Credit Changes:

##### 1. From:

HEC 3000 Consumer Economics Credit 2

##### To:

HEC 3011 Consumer Economics Credit 3

##### 2. From:

Directed Electives in Junior Year Credit 3

##### To:

Directed Electives in Junior Year Credit 4

#### B. Human Ecology: Family and Consumer Sciences Education Concentration\*\*

##### Course Addition:

HEC 3811: Mat. and Meth. of Teaching FACS Credit 1

HEC 3841: Occupational Family and Consumer Sciences Credit 1

HEC 4833: Occupational Careers w/ Children Field Experience Credit 1

HEC 4834: Occupational Culinary Arts Field Experience Credit 1

HEC 4835: Occupational Fashion and Fabric Field Experience Credit 1

HEC 4871: Residency I Credit 5

HEC 4881 Residency II Credit 10

HEC 4872 Professional Seminar I Credit 5

HEC 4882 Professional Seminar II Credits 2

##### Course Deletions:

HEC 4000 Prof. Integration & Communication Techniques Credit 1

EDPY 3300 Evaluation and Guidance Credits 3

SPED 3000 Persons with Disabilities in Regular Classroom Credits 3

#### C. Human Ecology: Food, Nutrition, and Dietetics Concentration – Dietetics/DPD Option

##### Course/Credit Changes:

##### 1. From:

HEC 4991 Field Experience – Health Care Credit 6

##### To:

HEC 4994 Field Experience – Health Care Credit 3

##### Course Addition to Curriculum:

HEC 4272 Clinical Dietetics Credit 3

### IV. CHANGE in HUMAN ECOLOGY MINOR:

**From:**

Human Ecology: A minor must include HEC 1000, HEC (CFS) 1010, HEC 1020, HEC 3000 and eight credit hours of HEC electives.

**To:**

Human Ecology: A minor must include HEC 1000 (1), HEC 1010 (3), HEC 3011(3) and eight credit hours of HEC electives.

**Additions and changes do not require additional cost.**

\*Course syllabi attached

\*\*Four year UG Catalog HEED schedule of courses attached

**Motion.** Dr. Bailey moved to approve the additions and changes effective immediately. The motion was seconded by Dr. Jordan and carried.

**4. Approval of Course Change from the Department of Foreign Languages**

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

Course Change:

FROM:

GERM 3150

Lec. 3. Credit 3.

Prerequisite: GERM 3010. An introduction to major German authors from Lessing to the second half of the 20th century. Lectures, shorter readings and discussions in German. Longer readings in English, with excerpts in German. Required for majors. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

TO:

GERM 3150

Lec. 3. Credit 3.

Prerequisite: GERM 3010. Literature of the German-speaking countries from its earliest development to the present day. Required for majors. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

**Motion.** Dr. Laurila moved to approve the change effective Fall 2011. The motion was seconded by Ms. Mannle and carried.

**5. Approval of International Business and Cultures curriculum change**

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

Course Change:

Curriculum Changes for International Business and Cultures, Option 1

I. Additions to World Studies Electives:

A. HIST 4710

History of Africa Lec. 3 Credit 3. History of Africa with an emphasis on the nineteenth and twentieth centuries.

B. Any upper level foreign language class not used for the foreign language requirement

**Motion.** Dr. Laurila moved to approve the change effective Fall 2011. The motion was seconded by Dr. Fesler and carried.

#### **6. Approval of Course Addition from the Department of Earth Sciences**

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

##### Course Addition:

GEOL 1046 Earth Environment, Resources, and Society Lec. 3, Cr. 3

Application of physical geology principles to geologic hazards, environmental pollution, and land/resource use. This course cannot be taken as part of the university natural sciences requirement and credit will not be given for both GEOL 1046 and GEOL 1045.

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

#### **7. Approval of Course Changes from the Department of English and Communications- Journalism Program**

In a memorandum dated January 31, 2011, approval was requested for the following:

##### Course Changes:

##### **I. Course Changes**

A. Change name and course description of JOUR 4830.

From: Free Lance Writing  
Lec. 3. Credit 3.

An introductory course in the writing and marketing of feature stories, commentaries and articles for the print media. Prerequisite: JOUR 2220. Recommended: JOUR 4820.

To: Feature Writing  
Lec. 3. Credit 3.

An introductory course in the writing and marketing of feature stories, commentaries and articles for the print and digital media. Prerequisite: JOUR 2220. Recommended: JOUR 4820.

B. Course revision

Remove separate lab registration requirement for JOUR 3740

From: Advertising Copy and Layout. Lec. 2. Lab 2. Credit 3.

To: Advertising Copy and Layout Lec. 3. Credit 3.

C. Course Designation Revision

Remove dual listing from JOUR (PC) 4360 Magazine Production and Design, 4460 Public Relations Cases and Practices, 4830 Free Lance/Feature Writing, and 4940 Technical Editing.

From: JOUR (PC) 4360, 4460, 4830, 4940

To: JOUR 4360, 4460, 4830, 4940

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

#### **8. Approval of Course Addition from the Department of English and Communications**

In a memorandum dated February 24, 2011, approval was requested for the following:

##### Course Addition:

**ENGL 4650 (5650). The Graphic Novel.** Lec. 3 Cr. 3.

Theory of comics-format texts and study of selected graphic novels.

**Description:**

This course focuses on comics as a literary medium that allows for a wide variety of fiction and nonfiction genres, all of which are categorized by publishers as ‘graphic novels,’ defined broadly as book-length comics-format texts. Students will study theory of comics and visual rhetoric and apply these concepts to derive meanings from a range of selected graphic novels. Students will also compose a variety of critical, interpretive, and creative projects about the texts they read.

**Motion.** Dr. Kemp moved to approve the addition effective Fall 2011. The motion was seconded by Ms. Mannle and carried.

**9. Approval of Course Change for Economics Majors from the Department of Economics, Finance, and Marketing**

In a memorandum dated February 24, 2011, approval was requested for the following:

Course Change:

**Replace ECON3830 Managerial Economics with ECON Electives in the Economics major.**

*From:*

**Senior Year**

ECON 3830 Managerial Economics.....	3
ECON 4510 or FIN 4910.....	3
ECON Electives.....	9
BMGT 4930 Business Strategy.....	3
MKT 3400 Principles of Marketing.....	3
Business electives.....	3
Non-business electives.....	6

*To:*

**Senior Year**

ECON 4510 or FIN 4910.....	3
ECON Electives.....	12
BMGT 4930 Business Strategy.....	3
MKT 3400 Principles of Marketing.....	3
Business electives.....	3
Non-business electives.....	6

**Motion.** Dr. Isbell moved to approve the change effective Fall 2011. The motion was seconded by Dr. Fesler and carried.

**10. Approval of Course Changes in Marketing from the Department of Economics, Finance, and Marketing**

In a memorandum dated February 24, 2011, approval was requested for the following:

Course Changes:

Change in prerequisites for MKT 3400:

MKT 3400 Principles of Marketing

From: prerequisite: ECON 2020

To: ECON 2010



Renaming of MKT 3430

From: MKT 3430 Advertising Principles and Cases

To: MKT 3430 Advertising

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

### **11. Approval of Course Change from the Department of Civil and Environmental Engineering**

In a memorandum dated February 17, 2011, approval was requested for the following:

**From:**

CEE 2110: Engineering Mechanics – Statics      Lecture 3. Credit 3.

Prerequisites: 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: Statics      Lecture 3. Credit 3.

Prerequisites: MATH 1920, PHYS 2110, and ENGR 1120 (PHYS 2110 and ENGR 1120 may be taken concurrently with CEE 2110). Vector algebra, resultants, equilibrium, friction, centroids, moment of inertia, trusses, machines and frames, beam shear and moments

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

### **12. Approval Course Changes from the Department of Mechanical Engineering**

In a memorandum dated March 8, 2011, approval was requested for the following:

Course Changes:

**FROM: ME 2330. Engineering Mechanics - Dynamics.**

**TO: ME 2330. Dynamics**

**ME 4020 (5020). Applied Machine Design.** Lec. 2. Lab. 2. Credit 3.

Prerequisites: ME 4010 ~~and ME 3050~~. Design for strength and rigidity under dynamic loads; shaft design of joints (threaded fasteners, welds, springs, keys, etc.); design of gear trains; lubrication and bearing design; finite element analysis; optimization, statistical consideration in design

**ME 4444. Senior Design Project.** Lec. 2. Lab. 4. Credit 4.

Prerequisites: **ME 3050 & 3060**, ME 3910; ME 4751; and ME 4020 as a prerequisite with ME 4720 as a corequisite, or ME 4720 as a prerequisite with ME 4020 as a corequisite. Capstone group design project in mechanical engineering with FE exam review

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

### **13. Approval of Mechatronics Concentration to the BSME Program**

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

Addition of a Concentration in Mechatronics to the BSME program

Addition of a TBR-approved Concentration in Mechatronics to the BSME program at TTU. The new Concentration satisfies all ABET accreditation requirements and the Community College transfer provisions of the Complete College Act – TN.  
(Summary table of the new Mechatronics Concentration shown on the next page)

## BSME = Mechatronics Curriculum

Fall	Freshman	Spring	
<a href="#">ENGL 1010</a> Writing I	3	<a href="#">ENGL 1020</a> Writing II	3
<a href="#">MATH 1910</a> Calculus I	4	<a href="#">MATH 1920</a> Calculus II	4
<a href="#">CHEM 1110</a> General Chemistry I	4	ENGR 1120 Engr Programming	2
<a href="#">ENGR 1020</a> Conn. to Engr & Technology	1*	<a href="#">PHYS 2110</a> Calculus-based Physics I	3
ENGR 1110 Engr. Graphics	2	<a href="#">PHYS 2111</a> Calculus-based Physics Lab. I	1
<a href="#">Humanities/Fine Arts</a> _____	3	<a href="#">MATH 2010/2011</a> Matrix Algebra	3
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>16</b>
Fall	Sophomore	Spring	
<a href="#">MATH 2110</a> Calculus III	4	<a href="#">SPCH 2410</a> or <a href="#">PC 2500</a> Communication	3
<a href="#">PHYS 2120</a> Calculus-based Physics II	3	<a href="#">MATH 2120</a> Diff Eqn	3
<a href="#">PHYS 2121</a> Calculus-based Physics Lab. II	1	<a href="#">ME 2330</a> Dynamics	3
<a href="#">ENGL 2130, 2230 or 2330</a> Literature	3	<a href="#">CEE 3110</a> Mech of Mater	3
<a href="#">CEE 2110</a> Statics	3	<a href="#">ECE 2020</a> Circuits II	3
<a href="#">ECE 2010</a> Circuits I	3	<a href="#">ECE 2110</a> Digital Systems	3
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>18</b>
Fall	Junior	Spring	
<a href="#">ME 3210</a> Thermo I	3	<a href="#">ME 3710</a> Heat Transfer	3
<a href="#">ME 3610</a> Dyn of Mach	3	<a href="#">ME 4010</a> Mach Design	3
<a href="#">ME 3010</a> Mater / Manuf	3	<a href="#">ECE 3300</a> Electronics I	3
<a href="#">ME 3023</a> Meas Mech Sys	3	<a href="#">ME 3220</a> Thermo II	3
<a href="#">ME 3720</a> Fluids	3	<a href="#">ME 3001</a> ME Analysis	3
<a href="#">ME 3900</a> Professionalism and Design	3	<b>Total</b>	<b>15</b>
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>15</b>
Fall	Senior	Spring	
<a href="#">ME 4751</a> Energy Systems Lab	2	<a href="#">ME 4444</a> Senior Capstone Design	4
<a href="#">ME 4720</a> Thermal Design	3	<a href="#">SBS 2</a>	3
<a href="#">ME 3050</a> Dyn Mod Control	3	<a href="#">Hum/Fine Arts Elec</a> _____	3
<a href="#">ME 3060</a> DMC Lab	1	<a href="#">ME 4370</a> Mechatronics System Design	3
<a href="#">SBS 1.</a>	3		
<a href="#">ECE 4210</a> Linear Systems Design	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>

\*ENGR 1020 is not part of the 128 hour curriculum

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

### **14. Approval of Mechatronics Concentration in the BSEE Program**

In a memorandum dated March 7, 2011, approval was requested for the following:

Addition of a Concentration in Mechatronics to the BSEE Program

A concentration in Mechatronics is being proposed as an option in the Bachelor of Science in Electrical Engineering (BSEE). This new concentration will satisfy all the ABET accreditation requirements for a BSEE degree. This also satisfies the changes made recently to the BSEE curriculum in order to be in compliance with the Complete College Tennessee 2010 Act. This proposal will also require TBR approval.

The ME department is also submitting a companion proposal for a concentration in Mechatronics as part of the BSME degree. Some of the courses in these curricula are shared, but the curricula are not identical, since they have to satisfy the differing requirements of BSEE and BSME degrees.

Addition of a new concentration in Mechatronics to the BSEE degree program at TTU is proposed. The electives in the BSEE program are chosen as indicated below to arrive at the new curriculum for the Mechatronics concentration;

Engineering Fund Elective: (3 Cr.)	CEE 2110 Statics	3 Cr.
E/M/S/B Elective I (3 Cr.)	ME 2330 Dynamics	3 Cr.
E/M/S/B Elective II (3 Cr.)	ME 3610 Dynamics of Mach.	3 Cr.
ECE Jr. Elective I (3 Cr.)	ECE 3120 Computer Systems	3Cr.
ECE Jr. Elective II (3 Cr.)	ECE 3210 Intro. Control Sys.	3 Cr.
ECE Jr. Elective III (3 Cr.)	ECE 3610 Intro Power Syst.	3 Cr.
ECE Jr. Elective IV (3 Cr.)	ME 4140 Robotics	3 Cr.
ECE Jr. Elective V (3 Cr.)	ECE 3260 Controls Lab	1 Cr.
	ENGR 1110 Engr. Graphics	2 Cr.
ECE Lab Elective I (1 Cr.)	ECE 3160 Digital Syst. Lab	1 Cr.
ECE Lab Elective II (1 Cr.)	ECE 3270 PLC Lab	1 Cr.
ECE Sr. Seq. I (3 Cr.)	ECE 4210 Cont. Syst. Des.	3 Cr.
ECE Sr. Seq. II (3 Cr.)	ECE 4140 Embedded Syst. Des	3 Cr.

Typical Curricula for students starting at TTU and for students transferring from Tennessee Community Colleges with an associate degree with electrical engineering emphasis are attached herewith.

### BSEE- Mechatronics Concentration

Fall	Freshman	Spring	
ENGL 1010 Writing I	3	ENGL 1020 Writing II	3
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
CHEM 1110 General Chemistry I	4	PHYS 2110 Calculus-based Physics I	3
ENGR 1020 Conn. to Engr & Technology	1	PHYS 2111 Calculus-based Physics Lab. I	1
Soc/Beh Sci Elec	3	CSC 2100 Intro. ... Computer Programming	3
<b>Total</b>	<b>15</b>	CSC 2101 Problem Solving & Computer Programming Lab.	1
		Hum/Fine Arts Elec	3
		<b>Total</b>	<b>18</b>
Fall	Sophomore	Spring	
ENGL 2130, 2230 or 2330 Literature	3	SPCH 2410 or PC 2500 Communication	3
MATH 2010 Elementary Matrix Algebra	2	MATH 2110 Calculus III	4
MATH 2011 Matrix Algebra Computer Lab.	1	ECE 2110 Intro. to Digital Systems	3
MATH 2120 Differential Equations	3	ECE 2020 Electric Circuits II	3
PHYS 2120 Calculus-based Physics II	3	CEE 2110 Engr. Mech. -Statics	3
PHYS 2121 Calculus-based Physics Lab. II	1	ENGR 1110 Engr. Graphics	2
ECE 2010 Electric Circuits I	3	<b>Total</b>	<b>18</b>
ECE 2011 Electrical Engineering Lab. I	1		
<b>Total</b>	<b>17</b>		
Fall	Junior	Spring	
ECE 3010 Signals & Systems	3	ECE 3020 Discrete-Time Sig. & Sys.	3
ME 2330 Eng. Mech. - Dynamics	3	ME 3610 Dynamics of Machinery	3
ECE 3300 Electronics I	3	ECE 3120 Microcomputer Sys.	3
ECE 3510 EM Fields I	3	ECE 3210 Control Systems Analysis	3
ECE 3160 Digital Syst. Lab	1	ECE 4910 Prof. Issues In ECE	1
ECE 3060 Electrical Engineering Lab. II	1	ECE 3270 PLC Lab	1
Math Elective	3	ECE 3260 Control Systems Lab	1
<b>Total</b>	<b>17</b>	ECE 3610 Introduction to Power Syst	3
		<b>Total</b>	<b>18</b>
Fall	Senior	Spring	
ECE 4961 Senior Capstone Design I	3	ECE 4970 Senior Capstone Design II	2
ECE 4210 Control Systems Design	3	ECE Senior Elective	3
ECE 4140 Embedded Systems Design	3	ME 4140 Robotics	3
ECE 3910 Prob. & Random Var. in ECE	3	Soc/Beh Sci Elec	3
<b>Total</b>	<b>12</b>	Hum/Fine Arts Elec	3
		<b>Total</b>	<b>14</b>

**BSEE- Mechatronics Concentration**  
**For Transfer students who have completed the Associate degree**  
**with Electrical Engineering Emphasis**

	Fall	Junior		Spring
ECE 2020 Circuits II	3		ECE 3020 Discrete-Time Sig. & Sys.	3
ECE 2110 Intro to Digital Systems	3		ME 2330 Dynamics	3
ECE 3010 Signals & Systems	3		ECE 3120 Microcomputer Sys.	3
ECE 3060 Electrical Engineering Lab. II	1		ECE 3210 Control Systems Analysis	3
ECE 3160 Digital Syst. Lab	1		ECE 4910 Prof. Issues In ECE	1
ECE 3300 Electronics I	3		ECE 3270 PLC Lab	1
CSC 2010 Programming Lab	1		ECE 3260 Control Systems Lab	1
CEE 2110 Statics	3		ENGR 1110 Graphics	2
<b>Total</b>	<b>18</b>		<b>Total</b>	<b>17</b>

	Fall	Senior		Spring
ECE 4961 Senior Capstone Design I		3	ECE 4970 Senior Capstone Design II	2
ECE 4210 ControlSystems Design		3	ECE Senior Elective	3
ECE 4140 Embedded Systems Design		3	ME 4140 Robotics	3
ECE 3910 Prob. & Random Var. in ECE		3	Math Elective	3
ME 3610 Dynamics of machinery	3		ECE 3510 EM Fields I	3
ECE 3610 Introduction to Power Syst	3			
<b>Total</b>		<b>18</b>	<b>Total</b>	<b>14</b>

Math and ECE Senior electives are selected from ECE department approved lists.

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

**15. Approval of Course Additions, Course and Curriculum Changes from the Department of Computer Science**

In a memorandum dated February 22, 2011, approval was requested for the following:

**Course Additions:**

1. CSC 4610: *Software Engineering I* Lec. 2. Lab 2. Credit 3. Prerequisites: C or better in CSC 2120, and CSC 2400, and senior standing. Course covers process models, agile methods, requirements analysis, design, testing, usability, configuration management and project management.
2. CSC 4620: *Software Engineering II* Lec. 2. Lab 2. Credit 3. Prerequisites: C or better in CSC 4610. Course covers advanced agile methods, coding, advanced testing concepts, deployment and maintenance.

**Course Changes:**

1. Adjust the prerequisites and course description for CSC 2500.

Current description:

CSC 2500. Unix Laboratory. Lec. 1. Lab. 1. Credit 1.

Prerequisites: Either CSC 2110 and CSC 2111 or CSC 2020 and CSC 2021. Introduction to the facilities, tools, and development procedures in an environment designed for systems programming. Special permission to enroll can be obtained from department.

Proposed description:

CSC 2500. Unix Laboratory. Lec. 1. Lab. 1. Credit 1.

Prerequisites: ~~Either C or better in~~ CSC 2110 and CSC 2111 ~~or CSC 2020 and CSC 2021~~. Introduction to the facilities, tools, and development procedures in an environment designed for systems programming. ~~Special permission to enroll can be obtained from department~~. Prerequisites may be taken concurrently.

2. Updating corequisites and prerequisites for introductory sequence.

A. Current description:

CSC 2100. Introduction to Problem Solving and Computer Programming. Lec. 3. Credit 3.

Prerequisite: MATH 1130, 1710, 1720, 1730, 1830 or 1910. Digital computers; problem solving and algorithm development; programming is introduced using a procedural approach, but classes and object-orientation are introduced; design and testing are emphasized. Prerequisite courses may be taken concurrently.

Proposed description:

CSC 2100. Introduction to Problem Solving and Computer Programming. Lec. 3. Credit 3.

Prerequisite: MATH 1130, 1710, 1720, 1730, 1830 or 1910. **Corequisite: CSC 2101**. Digital computers; problem solving and algorithm development; programming is introduced using a procedural approach, but classes and object-orientation are introduced; design and testing are emphasized. Prerequisite courses may be taken concurrently.

B. Current description:

CSC 2110. Data Structures and Algorithms. Lec. 3. Credit 3.

Prerequisites: CSC 2100, CSC 1610 or concurrent enrollment in CSC 1610. Corequisite: CSC 2111. Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis.

Proposed description:

CSC 2110. Data Structures and Algorithms. Lec. 3. Credit 3.

Prerequisites: **C or better in** CSC 2100, **CSC 2101**, and CSC 1610 ~~or concurrent enrollment in CSC 1610~~. Corequisite: CSC 2111. Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis. **CSC 1610 may be taken concurrently**.

C. Current description:

CSC 2111. Data Structures and Algorithms Lab. Lab 1. Credit 1.

Prerequisites: C or better in CSC 2100. Corequisite: CSC 2110. A series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures.

Proposed description:

CSC 2111. Data Structures and Algorithms Lab. Lab 1. Credit 1.

Prerequisites: C or better in CSC 2100, CSC 2101 and CSC 1610. Corequisite: CSC 2110. A series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures. CSC 1610 may be taken concurrently.

3. Update prerequisites to reflect removal of CSC 3700 from curriculum.

Current description:

CSC 4710. Design and Development of Human and Web Interfaces. Lec. 3. Credit 3.

Prerequisites: CSC 3700. A course in human-computer interaction design and user interface development. It will expose students to tools, techniques and ideas for designing effective human computer interfaces.

Proposed description:

CSC 4710. Design and Development of Human and Web Interfaces. Lec. 3. Credit 3.

Prerequisites: C or better in CSC 2110, CSC 2111, and CSC 3030. A course in human-computer interaction design and user interface development. It will expose students to tools, techniques and ideas for designing effective human computer interfaces and discuss practical and legal aspects of accessibility.

4. Change to course description catalog text:

Current text:

A Computer Science minor should have completed CSC 2020/2021, plus 6 hours of upper division computer science courses for a total of at least 15 hours in Computer Science (not to include CSC 1100 or CSC 1070).

A computer science major is required to complete all prerequisite computer science courses with a grade of C or better before enrolling in a subsequent course.

Proposed text:

A Computer Science minor should have completed CSC ~~2020/2021~~ 2110/2111, plus 6 hours of upper division computer science courses for a total of at least 15 hours in Computer Science (not to include CSC 1100 or CSC 1070).

~~A computer science major is required to complete all prerequisite computer science courses with a grade of C or better before enrolling in a subsequent course.~~

5. Add appropriate text to 'minor' description on page 38 of undergraduate catalog.

Computer Science: Students must complete fifteen (15) semester hours of CSC courses including CSC 2110, CSC 2111 and at least six (6) upper division CSC hours.

6. Add 'C or better' to all prerequisite CSC courses.

**Curriculum Changes:**

Replaced CSC 3700 with CSC 4610.

1. Replaced CSC 4950 with CSC 4620.

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



## **16. Approval of CSIT Concentration Course Additions, Course and Curriculum Changes from the Department of Computer Science**

In a memorandum dated February 10, 2011, approval was requested for the following:

### Course Additions:

CSC 3100: *Web Programming*. Lec. 3 Credit 3. Prerequisites: C or better in CSC 2110 and CSC 2111. Development of web applications with client and server-side technologies.

CSC 2550: *Foundations of Information Technology* Lec. 3. Credit 3. Prerequisites: None. Course provides an introduction to contemporary information technology and concepts of computing and information.

CSC 2560: *Networks for Information Technologists* Lec. 3. Credit 3. Prerequisites: C or better in CSC 2500 and CSC 2550. Course covers theoretical and practical aspects of computer networks from an information technology perspective. CSC 2500 may be taken concurrently.

### **Course Changes:**

1. Update prerequisites to reflect new courses.

#### Current description:

CSC 3550. Systems Programming. Lec. 3. Credit 3.

Prerequisite: CSC 2500. Design of systems software; implementation of program development tools; development of a systems software package. Special permission to enroll can be obtained from department.

#### Proposed description:

CSC 3550. Systems Programming. Lec. 3. Credit 3.

Prerequisite: **C or better in CSC 2500 and CSC 2560.** Design of systems software; implementation of program development tools; development of a systems software package. Special permission to enroll can be obtained from department.

2. Change course name and description to better align with industry expectations and update prerequisites to reflect new courses.

#### Current description:

CSC 3560 Network and Storage Technologies. Lec. 3. Credit 3.

Prerequisite: CSC 2500. Course covers general network and storage technology concepts and components to provide the basic ability to work on a network implementation team.

#### Proposed description:

CSC 3560 **Information Storage and Management**. Lec. 3. Credit 3.

Prerequisite: **C or better in CSC 2500 and CSC 2560. Course covers storage technologies, storage system architectures, storage networking technologies, business continuity and information availability principles and best practices, storage management and security principles and best practices.**

### **Curriculum Changes:**

#### Removing the following courses:

CSC 1070: Elementary Programming

WEBD 1500: Introduction to Web Design

WEBD 2300: Web Site Design: Dynamic Sites  
WEBD 4950: Business Web Application Development  
DS 3870: Advanced Web Page Design  
MATH 1130: College Algebra  
MATH 1830: Concepts of Calculus (removed as option – only allowing MATH 1910 now)

Adding the following courses:

CSC 2550: Foundations of Information Technology  
CSC 2560: Network Technologies  
CSC 3100: Web Programming  
CSC 4710: Design and Development of Human and Web Interfaces

Under “Adding the following courses” above, Dr. Talbert requested that “6 hours of electives” be added.

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

### **17. Approval of Course Addition from the School of Agriculture**

In a memorandum dated February 28, 2011, approval was requested for the following:

Course Addition:

AGRN 3300 Organic Farming Lec. 2, Lab. 2, Cr. 3

An examination of organic crop production methods including improving the structure of soil and fertility, pest management, irrigation, season extension, vegetable and fruit crop production, harvesting, post harvest handling and marketing techniques.

**Motion.** Dr. Best, representing Dr. Foster, moved to approve the addition effective Fall 2011. The motion was seconded by Dr. Elsayy and carried.

### **18. Approval of Curriculum Changes for Ready2Teach from the College of Education**

Ms. Mannle presented an overview of the changes needed to address the re-design of the teacher education programs for Ready2Teach.

Ms. Mannle requested, with the committee’s approval, to expedite the process by approving the changes in the following order:

#### **Approve new courses**

- **AGED – SPED 4871, 4872, 4881, 4882; EXPW sequence and ARED sequence approved at last month’s meeting.**
- **ELED 3151 – Teaching of Language Arts**
- **ELED 3152 – Teaching of Mathematics**

#### **Curricula Approvals**

- **SEED SEMA:**

##### **Additions**

- **Senior Year, 1<sup>st</sup> Semester should read:**
  - **SEED 4871 Residency I (5)**
  - **SEED 4872 Professional Seminar I (5)**
  - **Any Upper Division MATH elective**
- **Senior Year, 2<sup>nd</sup> Semester**
  - **SEED 4881 Residency II (10)**
  - **SEED 4882 Professional Seminar II (2)**

- Any upper-division math elective
- SEED SEEN:
  - Under Deletions,
    - FOED 3820
    - ESLP 4100
- SEED SSGE:
  - Under Additions, Freshman Year, 2<sup>nd</sup> Semester, strike BIOL 1120 General Botany
  - (note: wherever “Major Teaching Field” appears throughout all licensure programs, it will be replaced with the appropriate Course designation, i.e., GEOG)

**Remaining Curricula Approvals.**

MDS MDSE

MDS ESL

MDS MDSM

SEED SSEC

SEED SSHI

SEED SCCH

SEED SSPS

SEED SPTH

SPED SPEC

SEED SEBI

SEED SCEA

This request was accepted by the committee.

**Approval of New Courses: AGED-SPED 4871, 4872, 4881, 4882; EXPW sequence and ARED sequence approved at last month’s meeting; ELED 3151 Teaching of Language Arts; ELED 3152 Teaching of Mathematics**

**Request to Extend Approved Syllabi From January 2011 Curriculum Meeting**

Request the Syllabi approved in the January 2011 Curriculum Meeting for EXPW, ARED, and MUED, be extended to include the following programs:

- Exercise Science Physical Education and Wellness (EXPW)
- Secondary Education Earth Science (SEED/SCEA)
- Secondary Education Biology (SEED/SEBI)
- Secondary Education Social Studies Economics (SEED/SEEC)
- Secondary Education English (SEED/SEEN)
- Secondary Education Geography (SEED/SEGE)
- Secondary Education History (SEED/SEHI)
- Secondary Education Social Studies Political Science (SEED/SEPS)
- Secondary Education Mathematics (SEED/SEMA)
- Secondary Education Science-Chemistry (SEED/SESC)
- Secondary Education Science-Physics (SEED-SEPH)
- Secondary Education Speech and Theatre (SEED/SPTH)
- Special Education (SPED/SPEM)
- Special Education-Comprehensive (SPED/SPEC)
- Multidisciplinary Studies Elementary Education (MDS/ELED)
- Multidisciplinary Studies English as a Second Language (MDS/ESL)

- **Multidisciplinary Studies Middle Grades (MDS/MDSM)**

Course Additions:

SPED 4871 Residency 1 Cr. 5 semester hours

Co-requisite: XXXX4872 Prof. Seminar I

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.

SPED 4872 Professional Seminar I Cr. 5 semester hours

Co-requisite: XXXX4871 Residency I

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.

SPED 4881 Residency II Cr. 10 semester hours

Co-requisite: XXXX4882 Prof Seminar II

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

SPED 4882 Professional Seminar II Cr. 2 semester hours

Co-requisite: XXXX4881 Residency II

Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

**Motion.** Ms. Mannle moved to approve the EXPW sequence and ARED sequence approved at last month's meeting and the course additions effective Fall 2011. The motion was seconded by Ms. Galloway and carried.

Course Additions:

ELED 3151 Teaching of Language Arts and Writing Cr. 2

Co-requisites: ELED 3140 Teaching of Social Studies; ELED 3152 Teaching Math; ELED 4140 Science for Elementary Teachers

Prerequisites: Full admission to the Teacher Education Program

Requirement: A minimum of "B" is required for successful completion of any field experience components related to ELED 3151.

While implementing the writing process, candidates will review, explore, and apply grammatical and mechanical aspects of writing in various genres, for different purposes and audiences, and across content areas.

ELED 3152 Teaching of Mathematics Cr. 3

Co-requisites: ELED 4140, ELED 3140, ELED 3151

Prerequisite: Full admission to the Teacher Education Program

Use of modern methods and strategies for teaching mathematics and translating theory into practice.

**Motion.** Ms. Mannle moved to approve the Elementary Education additions effective Fall 2011. The motion was seconded by Dr. Jordan and carried.

## Approval of Secondary Education Science/ Mathematics (SEED SEMA)

Program of Study Secondary Education Science/Mathematics

### Program additions, deletions and changes:

#### Additions

- Senior Year, 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
SEED 4872 Professional Seminar I (5)  
Any Upper Division MATH elective
- Senior Year, 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

#### Deletions:

- EXPW 2430 (2)
- EDPY 3300 (3)
- CUED 4150 (3)
- FOED 3830 (1)
- MATH 3510 (3)
- SPED 3000 (3)
- FOED 3820 (1)
- SEED 4870 (5)
- SEED 4880 (5)
- SEED 4890 (2)

#### Changes

**From:** ENGL 2130 American Literature (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester (3)

**From:** ART 1030 Art Appreciation **Or** MUS 1030 Music Appreciation (3)  
Freshman Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** MATH 2120 Diff. Equations (3) Junior Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** ENGL 2230 **Or** 2330 (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester and adding SPAN 2510, 2550 or HIST 1310

**From:** EDPY 2200 Educational Psy. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** Adding AGBE 2010 or GEOG 1130 to Social/Behavioral selection for Sophomore Year

**From:** MATH 3400 Intro/Conc. of Math. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** MATH 3070 Stat Methods I (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** FOED 3010 Int. Inst. Tech Clsrm (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** MATH 2010 Elem. Matrix Algebra (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** MATH 4210 Numerical Analysis (3) moved from junior to senior year

**From:** MATH 4610 History of Math (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** MATH 4610 History of Math I **Or** MATH 4620 Hist. Math II (3) Junior Year, 2<sup>nd</sup> Semester

**From:** MATH 3430 College Geometry (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** MATH 4360 Graph Theory **Or** MATH 4350 Introductory Com. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** MATH 4350 Combinatorics **Or** MATH 4360 Graph Thry **Or** MATH 4050 Number Thry **Or** MATH 4010 Modern Alg I (3) Junior Year 2<sup>nd</sup> Semester

**From:** READ 3350 Tchg Rdg Cont. Ar (3) Senior Year, 1<sup>st</sup> Semester  
**To:** READ 3350 Tchg Rdg/Content (3) Junior Year, 2<sup>nd</sup> Semester

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**Secondary Education Mathematics**

**SEED/SEMA**

(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230/2330 or SPAN 2510 or SPAN 2550 or HIST 1310	3
Math 1910 Calculus I	4	HIST 2010 American History I	3
Math 1920 Calculus II	4	HIST 2020 American History II	3
Science Sequence (Biol/Chem/Geol/Phys)	8	SPCH 2410 or PC 2500	3
ECON 2010 or GEOG 1120 or POLS 1000 or PSY 2010 or SOC 1010 or ANTH 1100 or AGBE 2010 GEOG 1130	3	ECON 2010 or GEOG 1120 or POLS 1000 or PSY 2010 or SOC 1010 or ANTH 1100 or AGBE 2010 GEOG 1130	3
PHED Activity	1	EDPY 2200 Educational Psychology	3
FOED 1820/22 Intro Field Experience	1	ART 1030 Art Appreciation or MUS 1030 Music Appreciation	3
FOED 2011 Introduction to Teaching and Technology	2	MATH 2110 Calculus III	4
<b>Total</b>	<b>29</b>	MATH 2120 Differential Equations	3
		<b>Total</b>	<b>31</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the classroom	3	MATH 4210 Numerical Analysis I	3
SEED 4122 Materials and Methods of Teaching Mathematics	3	SEED 4871 Residency I	5
SEED 4422 Teaching Secondary Mathematics using Technology	3	SEED 4872 Professional Seminar I	5
READ 3350 Teaching Reading in the Content Areas	3	SEED XXXX Teaching Algebra in Secondary Schools	3
MATH 1410 or 1420	3	SEED 4881 Residency II	10
MATH 2010 Elementary Matrix Algebra	2	SEED 4882 Professional Seminar II	2
MATH 3070 Statistical Methods I	3	<b>Total</b>	<b>28</b>
MATH 3400 Introduction Concepts of Mathematics	3		
MATH 3430 College Geometry	3		
MATH 4350 Combinatorics or MATH 4360 Graph Theory or MATH 4050 Number Theory or MATH 4010 Modern Algebra I	3		
MATH 4610 History of Math I or MATH 4620 History of Math II	3		
<b>Total</b>	<b>32</b>		

**Motion.** Ms. Mannle moved to approve the SEED SEMA changes effective Fall 2011. The motion was seconded by Dr. Jordan and carried.

**Approval of Secondary Education English (SEEN)**

Program of Study Secondary Education English

Program additions, deletions, and changes:

Additions:

Sophomore Year 1<sup>st</sup> Semester: ENGL Elective  
Sophomore Year 2<sup>nd</sup> Semester: ENGL Elective  
Junior Year 2<sup>nd</sup> Semester: READ 4410 Reading-Writing (2)  
Senior Year 1<sup>st</sup> Semester SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

**Deletions:**

- **EDPY 3300 (3)**
- **EXPW 2430 (2)**
- **CUED 4150 (3)**
- **FOED 3830 (1)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**
- **SPED 3000 (3)**
- **READ 4411 (3)**
- **FOED 3820**
- **ESLP 4100**

**Changes:**

**From: MATH 1010 or any Gen Ed Math (3)**

**To: MATH or any approved Gen Ed Math (3)**

**From: Science Sequence (8) (Biol/Chem/Geol/Phys)**

**To: Science-Any approved Gen Ed. Science Sequence (8)**

**From: ART 1030, MUS 1030 or THEA 1030 (6)**

**To: HUMANITIES: Any two Gen Ed. approved Humanities Courses (6)**

**From: ECON 2010, GEOG 1120, POLS 1000, PSY 2010, SOC 1010,  
ANTH 1100 (6)**

**To: Any approved Gen Ed. Social Behavior Science (6)**

**From: ENGL 3400, ENGL 3250, ENGL 4411, ENGL 4430, ENGL 4440, or  
ENGL 4450**

**To: ENGL 3250 or any upper division English writing course (3)**

**From: Move ENGL 3810 British Lit. (3) Sophomore Year, 1<sup>st</sup> Semester**



**To: Junior Year 1<sup>st</sup> Semester**

**From: Move ENGL 3820 British Lit. (3) Sophomore Year, 2<sup>nd</sup> Semester**

**To: Junior Year, 2<sup>nd</sup> Semester**

**From: ENGL 4511, ENGL 4521, ENGL 4531, ENGL 4541, or ENGL 4551**

**To: Any Upper Division course in Linguistics, Grammar, or History of English Language**

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**Secondary Education English**

**SEED/SEEN**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2230 or 2330 World Literature	3
ENGL 1020 Writing II	3	ENGLISH Electives	6
MATH Any approved Gen Ed Math	3	HIST 2010 American History I	3
SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3	HIST 2020 American History II	3
SCIENCE Any approved Gen Ed Science Sequence	8	SOCIAL BEHAVIOR SCIENCE Any Gen Ed Approved	6
HUMANITIES Any two Gen Ed Approved Humanities Courses	6	EDPY 2200 Educational Psychology	3
Elective	1	FRENCH/GERMAN/SPANISH 2010, 2020	6
FOED 1820 or 1822 Field Experience/Orientation	1	<b>Total</b>	<b>30</b>
FOED 2011 Introduction to Teaching And Technology	2		
<b>Total</b>	<b>30</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	Upper Division English course in Linguistics, Grammar, or the History of the English Language	3
SEED 4120/5120 Materials and Methods of Teaching English	3	SEED 4871 Residency I	5
READ 3350 Teaching Reading in the Content Areas	3	SEED 4872 Professional Seminar I	5
READ 4411 Reading Writing Connection	2	SEED 4881 Residency II	10
READ 4750 Books and Related Materials For Adolescents and Adults	3	SEED 4882 Professional Seminar II	2
ENGL 3250 or any upper division English writing course	3	<b>Total</b>	<b>25</b>
ENGL 3810 British Lit I	3		
ENGL 3820 British Lit II	3		
ENGL 3910 American Lit I	3		
ENGL 3920 American LIT II	3		
ENGL 4121 Shakespeare	3		
ENGL 4751 Topics Non-Western Lit OR ENGL 4712 African American Lit OR ENGL 4713 Native American Lit OR ENG 4700 RODP Non-Western Lit	3		
<b>Total</b>	<b>35</b>		

**Motion.** Ms. Mannle moved to approve the SEEN changes effective Fall 2011. The motion was seconded by Dr. Armistead and carried.

## Approval of Secondary Education Geography (SEGE)

### Program of Study Secondary Education Geography

Program additions, deletions, and changes:

Additions:

Freshman Year, 2nd Semester: Elective (1)  
Junior Year, 1<sup>st</sup> Semester: HIST 3410 Intro Hist Method (3)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Electives (Major Teaching Field) (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

**NOTE: Wherever “Major Teaching Field” appears throughout all licensure programs, it will be replaced with the appropriate Course designation, i.e., GEOG)**

Deletions:

- ART 1030 MUS 1030 (3)
- PHED Activity (1)
- ECON 2020 (3)
- FOED 3830 (1)
- GEOG UD Elective (2)
- FOED 3820 (1)
- EXPW 2430 (2)
- SPED 3000 (3)
- CUED 4150 (3)
- EDPY 3300 (3)
- SEED 4870 (5)
- SEED 4880 (5)
- SEED 4890 (2)

Changes:

**From:** MATH 1010 Intro. Cont. Math (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** MATH Approved Gen Ed (3)

**From:** GEOG 1010 Weather & Climate (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** HIST 1110 Or 1120 Wld. Civ. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** HIST 1110 or 1120 World Civ. (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** SPCH 2410 Intro to Speech Com (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Intro to Speech OR PC 2500 Communicating in the Professions (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** ANTH 1100 Int. to Anthr. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** MATH 1830 Conc. Of Calculus (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** HIST 1010Surv. Eur. Civil. (3) Junior Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester (3)

**From:** HIST 1020 Survey European Civ (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester (3)

**From:** FOED 3010 Integ. Inst. Tech. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** READ 3350 Tch Rdg Cont Area (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** GEOG 4210 Cartography (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** HIST 4730 or 4740 or 4750 or 4760 (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** SEED 4124 M&M Tchg. S. St. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** SEED 4124/**5124** MM Tchg SS (3) Junior Year, 2<sup>nd</sup> Semester

**From:** GEOG 2130 Con. Nat. Res. **Or** GEOG 3010 Geog. Of US (3)  
Junior Year, 2<sup>nd</sup> Semester  
**To:** GEOG 2130 Cons. Nat. Res (3) Junior Year, 2<sup>nd</sup> Semester (**AND**)  
GEOG 3010 Geog. Of US (3) Junior Year, 2<sup>nd</sup> Semester  
**(Adds 3 Credit Hours)**

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Secondary Education Social Studies –Geography

SEED/SEGE

(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH approved Gen Ed	3	SPCH 2410 Intro to Speech or	
Science Sequence: Biol/Chem/Geol/Phys	8	PC 2500 Communicating in the Professions	3
HIST 2010 American History I	3	EDPY 2200 Educational Psychology	3
HIST 2020 American History II	3	ANTH 1100 Intro to Anthropology	3
POLS 1000 American Government	3	HIST 1110 or 1120 World Civilizations	3
Elective Any	1	GEOG 1120 Human Geography	3
FOED 1820 or 1822		HIST 1010 Survey European Civilization	3
Field Experience/Orientation	1	HIST 1020 Survey European Civilization	3
FOED 2011 Introduction to Teaching		PSY 2010 General Psychology	3
And Technology	2		
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional		Electives	5
Technology into the Classroom	3	SEED 4871 Residency I	5
SEED 4124/5124 Materials and Methods of		SEED 4872 Professional Seminar I	5
Teaching Social Studies	3	SEED 4881 Residency II	10
READ 3350 Teaching Reading in the		SEED 4882 Professional Seminar II	2
Content Areas	3		
HIST 3100 Tennessee Topics	3	<b>Total</b>	<b>27</b>
HIST 3410 Intro Historical Methods	3		
HIST 4730 or 4740 or 4750 or 4760	3		
GEOG 1010 Weather and Climate	3		
GEOG 2130 Cons. National Resources	3		
GEOG 3010 Geography of the US	3		
GEOG 4210 Cartography	3		
GEOG Upper Division Elective	3		
<b>Total</b>	<b>33</b>		

**Motion.** Ms. Mannle moved to approve the SEGE changes effective Fall 2011. The motion was seconded by Dr. Jordan and carried.

**Approval of Secondary Education Special Education/Modified (SPED SPEM)**

Program of Study Secondary Education Special Education/Modified

**Program additions, deletions, and changes:**

**Additions:**

- Sophomore Year, 1<sup>st</sup> Semester: HEC 2200 Dev. Young Child/SPED (3)  
ELED 2100 Prob Solv or Math Elect (3)
- Junior Year, 1<sup>st</sup> Semester: READ 3311 Literacy I (7)  
SPED Elective (3)  
(Potential New Course-Combining competencies of SPED 2010 and SPED 2040)
- Junior Year, 2<sup>nd</sup> Semester: ART 3200 Art Applications  
SPED 4200 Autism Disorders (3)  
SPED Elective (5)  
(Potential New Course-Combining competencies of Content/SPED Pedagogy Instructional Methods)
- Senior Year 1<sup>st</sup> Semester: SPED 4871 Residency I (5)  
Co Req SPED 4872 Professional Seminar I (5)  
SPED Elective (3)  
(Potential New Course-Combining competencies of SPED 4320 and SPED 3040)
- Senior Year 2<sup>nd</sup> Semester: SPED 4881 Residency II (10)  
Co Req SPED 4882 Professional Seminar II (2)

(Note: Competencies from SPED 4130 will be included in SPED 4872 (5) Professional Seminar I)

**Deletions:**

- **PEACT (2)**
- **SPED 2010 (3)**
- **HEC 2060 (2)**
- **SPED 2040 (3)**
- **SPED 3040 (3)**
- **READ 3312 (5)**
- **FOED 3810 (1)**
- **SPED 4000 (3)**
- **SPED 4320 (1)**
- **EXPW 2130 (2)**
- **EXPW 2430 (2)**
- **SPED 4820 (2)**
- **SPED 4130 (3)**
- **Elect. (3)**
- **SPED 4870 (5)**
- **SPED 4880 (5)**
- **SPED 4890 (2)**

**Change:**

**From:** PSY 2010 General Psychology (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** GEOG 1120 Human Geography (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** SOC 1010 Intro to Sociology (3) Sophomore Year, 1<sup>st</sup> Semester

**To:** Approved GE SBS (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** MUS 1030 or ACT 1030 (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** Approved GE Humanities & FA (3) Sophomore Year, 2<sup>nd</sup> Semester

**(2011-2012 Catalog)**

**Special Education – Modified**

**SPED/SPEM**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades K-12)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 British/World Literature	3
MATH 1410 Survey Elementary Math I	3	GEOL 1310 Concepts of Geology	3
MATH 1420 Survey Elementary Math II	3	PHYS 1310 Concepts of Physics	3
HIST 2010 American History I	3	ELED 2100 Problem Solving or Math Elect	3
HIST 2020 American History II	3	EDPY 2200 Educational Psychology	3
BIOL 1310 Concepts of Biology	3	SPCH 2410 Intro to Speech Communication	
CHEM 1310 Concepts of Chemistry	3	Or PC 2500 Professional Communication	3
GEOG1120 Human Geography	3	HEC 2200 Development of the Young	
FOED 1820 or 1822		Child/SPED	3
Field Experience/Orientation	1	Social/Behavioral Science Any Gen Ed	3
FOED 2011 Introduction to Teaching		Humanities & Fine Arts Any Gen Ed	3
And Technology	2		
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional		SPED Electives	3
Technology into the Classroom	3	SPED 4871 Residency I	5
READ 3311 Literacy I	7	SPED 4872 Professional Seminar I	5
CFS 3600 School Community Partnerships	2	SPED 4881 Residency II	10
SPED 3030 Learning Disabilities	3	SPED 4882 Professional Seminar II	2
SPED 3031 Physical Management and		<b>Total</b>	<b>25</b>
Support Services for Orthopedic, Motor			
and Health Impaired	3		
SPED 4200 Autism Disorders	3		
SPED 4030 Applied Behavior Analysis			
Practicum	3		
SPED Electives	8		
Art 3200 Art Applications	2		
MUS 1074 Music for Special Needs	1		
<b>Total</b>	<b>35</b>		

**Motion.** Ms. Mannle moved to approve the SPED SPEM changes effective Fall 2011. The motion was seconded by Dr. Jordan and carried.

## Approval of Remaining Curricula:

### Multidisciplinary Studies – Elementary Education (MDS MDSE)

#### Elementary Education

Program of Study Multidisciplinary Studies – Elementary Education

Program additions, deletions, and changes:

#### Additions:

Junior Year, 2<sup>nd</sup> Semester: ELED 3152 Tchg Math\* (New Course) (3)  
Junior Year, 2<sup>nd</sup> Semester: ELED 3151 Tchg of LA/Writing\*(New Course)(2)  
Senior Year 1<sup>st</sup> Semester: ELED 4871 Residency I (5)  
Co Req ELED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: ELED 4881 Residency II (10)  
Co Req ELED 4882 Professional Seminar II (2)  
Professional Ed Elective (3)

#### Deletions:

- **FOED 3810 (2)**
- **CUED 4150 (3)**
- **ELED 3150 (2)**
- **FOED 3800 (2)**
- **EXPW 3510 (3)**
- **SPED 3000 (3)**
- **EDPY 3300 (3)**
- **ELED 4870 (5)**
- **ELED 4880 (5)**
- **ELED 4890 (2)**

#### Changes:

**From:** GEOL1310 Concepts of Geol. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** GEOL 1310 Concepts (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** SOC 1010 Intro to Soc Or ANTH 1100 (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Social/Beh. Science GE (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** ART 1030 Art Appreciation **Or** MUS 1030 Music Appreciation (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Humanities & FA GE (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** PHYS 1310 Concepts of Physics (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** PHYS 1310 Concepts (3) Sophomore Year, 2<sup>nd</sup> Semester (3)

**From:** CFS 3600 Fam/Comm/Prof Part. (2) Senior Year, 1st Semester  
**To:** CFS 3600 School Comm Part. (2) Junior Year, 2<sup>nd</sup> Semester

**From:** ECSP 4100 Dev. App. Pract. K-4 (3) Senior Year, 1<sup>st</sup> Semester



**To:** ECSP 4100 Dev. App. Pract (3) Junior Year, 1<sup>st</sup> Semester

**From:** MUS 3530 Music Applications (3) Senior Year, 1<sup>st</sup> Semester

**To:** MUS 3530 Music Applications (3) Junior Year, 2<sup>nd</sup> Semester

**From:** ART 3200 Art Applications (2) Senior Year, 1<sup>st</sup> Semester

**To:** ART 3200 Art Applications (2) Junior Year, 2<sup>nd</sup> Semester

**From:** ESLP 4100 M&M for P-12 (3) Junior Year, 1<sup>st</sup> Semester

**To:** ESLP 4100 M/M or TEAE 4020 (3) Junior Year, 1<sup>st</sup> Semester

(2011-2012 Catalog)

**Multi-Disciplinary Studies –Elementary Education**

**MDS/MDSE**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades K-6)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH 1410 Survey Elementary Math I	3	SPCH 2410 Intro to Speech or	
MATH 1420 Survey Elementary Math II	3	PC 2500 Communicating in the Professions	3
BIOL 1310 Concepts of Biology	3	EDPY 2200 Educational Psychology	3
CHEM 1310 Concepts of Chemistry	3	GEOL 1310 Concepts of Geology	3
GEOG 1120 Human Geography	3	PHYS 1310 Concepts of Physics	3
HIST 2010 American History I	3	HEC 2200 Development Young Child/SPED	3
HIST 2020 American History II	3	Humanities & Fine Arts any Gen Ed App.	3
FOED 1820 or 1822		Social/Behavioral Science any Gen Ed App.	3
Field Experience/Orientation	1	ELED 2100 Problem Solving or Math elec.	3
FOED 2011 Introduction to Teaching			
And Technology	2	<b>Total</b>	<b>30</b>
<b>Total</b>	<b>30</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional		Electives	3
Technology into the Classroom	3	ELED 4871 Residency I	5
READ 3311 Literacy I	7	ELED 4872 Professional Seminar I	5
CUED 4850 Special Topics in Content	3	ELED 4881 Residency II	10
ESLP 4100 Materials/Methods ESL	3	ELED 4882 Professional Seminar II	2
CFS 3600 School Community Partnerships	2	<b>Total</b>	<b>25</b>
ECSP 4100 Dev. Appropriate Practice	3		
ART 3200 Art Applications	2		
MUS 3530 Music Applications	3		
ELED 3140 Teaching Social Studies	2		
ELED 3151 Teaching of Lang/Writing	2		
ELED 3152 Teaching Math	3		
ELED 4140 Science Elementary Teachers	2		
<b>Total</b>	<b>35</b>		

## Multidisciplinary Studies – ESL

### Program of Study Multidisciplinary Studies - ESL

Program additions, deletions, and changes:

#### Additions:

Freshman Year, 2nd Semester: Approved Gen Ed SBS (3)

Sophomore Year, 1<sup>st</sup> Semester: Elective In Major Teaching Field (1)  
ELED 2100 Prob Solv or Math Elect (3)  
Approved Gen Ed SBS (3)

Sophomore Year, 2<sup>nd</sup> Semester: Humanities & FA GE (3)

Junior Year, 1<sup>st</sup> Semester: Elective In Major Teaching Field (2)

Senior Year 1<sup>st</sup> Semester: ELED 4871 Residency I (5)  
Co Req ELED 4872 Professional Seminar I (5)

Senior Year 2<sup>nd</sup> Semester: ELED 4881 Residency II (10)  
Co Req ELED 4882 Professional Seminar II (2)

#### Deletions:

- PE Activity (1)
- PSY 2010 (3)
- CHEM 1310 Or Elective (3)
- SOC 1010 Or ANTH 1100 (3)
- ART 1030 Or MUS 1030 (3)
- PHYS 1310 Or Elective (3)
- FOED 3810 (2)
- SPED 3000 (3)
- EDPY 3300 (3)
- SPED 4000 (3)
- ELED 4870 (5)
- ELED 4880 (5)
- ELED 4890 (2)

#### Changes:

**From:** BIOL Concepts Biol/Env Or Science Sequence (3-4) Freshman Year, 1<sup>st</sup> Semester

**To:** Approved Gen Ed Natural Science Sequence (4) Freshman Year, 1<sup>st</sup> Semester (**Adds 1 Credit Hour**)

**From:** HIST 2010 American History I (3) Sophomore Year, 1<sup>st</sup> Semester

**To:** Freshman Year, 1<sup>st</sup> Semester (3)

**From:** GEOL 1310 Concepts of Geol. Or Science Sequence (3-4) Freshman Year, 2<sup>nd</sup> Semester

**To:** Approved Gen Ed Natural Science Sequence (4) Freshman Year, 2<sup>nd</sup> Semester

**From:** HIST 2020 American History II (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Freshman Year, 2<sup>nd</sup> Semester (3)

**From:** FREN/GERM/SPAN 2010 (3) Freshman Year, 1st Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** FREN/GERM/SPAN 2020 (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester (3)

**From:** SPCH 2410 **Or** PC 2500 (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Intro to Speech Comm. Or PC 2500 Communicating in the Prof (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** LING/ENG 4511 Int. Desc. Ling (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** LING/ENG 4511 Intro to Desc Ling or TEAE 4500 (3) Junior Year, 1<sup>st</sup> Semester

**From:** ESLP 4100 M&M for P-12 (3) Junior Year, 1<sup>st</sup> Semester  
**To:** ESLP 4100 M/M or TEAE 4020 (3) Junior Year, 1<sup>st</sup> Semester

**From:** FOED 3010 Integ. Instr. Tech. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** ESLP 4200 ESL Assess Rd/Wrt. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** ESLP 4200 Assess if R/W or TEAE 4437 (3) Junior Year, 2<sup>nd</sup> Semester

**From:** ESLP 4300 ESL Field Exp. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** SPAN/GERM/FREN 3550 Or 3510 Or 3520 (3) Junior Year, 1<sup>st</sup> Semester  
**To:** FREN/GERM/SPAN 3510/3520 or 3550 Countries & People (2\*-3) Junior Year, 2<sup>nd</sup> Semester

**From:** ENGL 4531 Grammar/Lang. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** ENGL 4531 Gram/Lang or TEAE 4501 (3) Junior Year, 2<sup>nd</sup> Semester

**From:** Elective (2) Junior Year, 2<sup>nd</sup> Semester  
**To:** Electives (2-3\*) (\*must complete 3 hrs electives to meet 120 minimum hours for degree) Junior Year, 2<sup>nd</sup> Semester (**Adds 1 Credit Hour**)

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**Multi-Disciplinary Studies –English As A Second Language  
MDS/MDS.ESL**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades PreK-12)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH 1410 Survey Elementary Math I	3	SPCH 2410 Intro to Speech or	
MATH 1420 Survey Elementary Math II	3	PC 2500 Communicating in the Professions	3
Natural Science Sequence Gen Ed Approved	8	EDPY 2200 Educational Psychology	3
HIST 2010 American History I	3	Social/Behavioral Science any Gen Ed App.	3
HIST 2020 American History II	3	Humanities & Fine Arts any Gen Ed App.	3
Social/Behavioral Science any Gen Ed App.	3	ELED 2100 Problem Solving or Math elec.	3
FOED 1820 or 1822		FREN/GERM/SPAN 2010	6
Field Experience/Orientation	1	Elective Any	1
FOED 2011 Introduction to Teaching And Technology	2	<b>Total</b>	<b>28</b>
<b>Total</b>	<b>32</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	Electives	3
READ 3311 Literacy I	7	ELED 4871 Residency I	5
READ 3350 Teaching Reading in the Content Areas	3	ELED 4872 Professional Seminar I	5
ESLP 4100 Materials/Methods ESL Or TEAE 4020	3	ELED 4881 Residency II	10
ESLP 4200 Assessment of Reading/Writing Or TEAE 4437	3	ELED 4882 Professional Seminar II	2
ESLP 4300 Field Experience	3	<b>Total</b>	<b>25</b>
LING 4511 Intro to Descriptive Linguistics or TEAE 4500	3		
LING 4531 Grammar and Language or TEAE 4501	3		
FREN/GERM/SPAN 3510/3520 Or 3550 Countries & People	2-3		
Electives (must complete 3 hours electives to meet 120 minimum hours for degree)	4-5		
<b>Total</b>	<b>35</b>		

## Multidisciplinary Studies Middle Grades (MDS MDSM)

### Program of Study Multidisciplinary Studies Middle Grades

Program additions, deletions, and changes:

#### Additions:

Sophomore Year, 1<sup>st</sup> Semester: Social/Beh. Science, Approved GE (3)  
Junior Year, 1<sup>st</sup> Semester: READ 3311 Literacy I (7)  
ART 3200 Art Applications or MUS 3530  
Music Applications (2-3)  
Junior Year, 2<sup>nd</sup> Semester: ELED 3152 Tchg Math (3)  
CUED 4850 Sp Topics in Middle Gds (3)  
ELED 3151 Tchg of LA/Writing\* or 3350 Rdg  
in Content Areas (2-3)  
Electives (**must complete 5 hrs electives to  
meet 120 hr degree requirements**) (4-5)  
Senior Year 1<sup>st</sup> Semester: ELED 4871 Residency I (5)  
Co Req ELED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: ELED 4881 Residency II (10)  
Co Req ELED 4882 Professional Seminar II (2)

#### Deletions:

- PE Activity (1)
- SOC 1010 (3)
- FOED 3810 (2)
- READ 3312 (5)
- LSCI 4570 (3)
- CUED 4150 (3)
- ELED 3150 (2)
- FOED 3800 (2)
- POLS 1000 (3)
- EDPY 3300 (3)
- SPED 3000 (3)
- ECON 2010 (3)
- Elective (2)
- ELED 4870 (5)
- ELED 4880 (5)
- ELED 4890 (2)

#### Changes:

**From:** Biol/Chem/Geol/Phys 1310 (3) Freshman Year, 1<sup>st</sup> Semester

**To:** BIOL 1310 Concepts (3) Freshman Year, 1<sup>st</sup> Semester

**From:** Biol/Chem/Geol/Phys 1310 (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** CHEM 1310 Concepts (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** GEOG 1120 Human Geography (3) Sophomore Year, 2<sup>nd</sup> Semester

**To:** Freshman Year, 2<sup>nd</sup> Semester (3)

**From:** ART 1030 or MUS 1030 (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Approved Humanities & FA GE (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** MATH 1130 College Algebra (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester (3)

**From:** Biol/Chem/Geol/Phys 1310 (3) Sophomore Year, 1st Semester  
**To:** GEOL 1310 (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** EDPY 2200 Educ. Psychology (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** EDPY 2200 Ed. Psy (3) Sophomore Year 2<sup>nd</sup> Semester

**From:** SPCH 2410 **Or** PC 2500 (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Intro to Speech Comm. Or PC 2500 Communicating in the Prof (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** Biol/Chem/Geol/Phys 1310 (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** PHYS 1310 Concepts (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** ART 1030 Or MUS 1030 (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Approved Gen ED HUM & FA (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** HIST 3100 Tennessee Topics (3) Senior Year, 1<sup>st</sup> Semester  
**To:** HIST 2030 or 3100 TN Topics (3) Junior Year, 1<sup>st</sup> Semester

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**Multi-Disciplinary Studies –Middle Grades Education**

**MDS/MDSM**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 4-8)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH 1410 Survey Elementary Math I	3	MATH 1130 College Algebra	3
MATH 1420 Survey Elementary Math II	3	SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3
BIOL 1310 Concepts of Biology	3	EDPY 2200 Educational Psychology	3
CHEM 1310 Concepts of Chemistry	3	GEOL1310 Concepts of Geology	3
GEOG 1120 Human Geography	3	PHYS 1310 Concepts of Physics	3
HIST 2010 American History I	3	HIST 1110 World Civilization	3
HIST 2020 American History II	3	Humanities & Fine Arts any Gen Ed App.	3
FOED 1820 or 1822 Field Experience/Orientation	1	Social/Behavioral Science any Gen Ed App.	3
FOED 2011 Introduction to Teaching And Technology	2	<b>Total</b>	<b>30</b>
<b>Total</b>	<b>30</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	HEC 3500 Dev. Middle Child/Adol	3
READ 3311 Literacy I	7	ELED 4871 Residency I	5
CUED 4850 Special Topics in Mid Grades	3	ELED 4872 Professional Seminar I	5
ESLP 4100 Materials/Methods ESL	3	ELED 4881 Residency II	10
HIST 2030 or 3100 Tennessee Topics	3	ELED 4882 Professional Seminar II	2
ART 3200 Art Applications or MUS 3530 Music Applications	2-3	<b>Total</b>	<b>25</b>
ELED 3140 Teaching Social Studies	2		
ELED 3151 Teaching of Lang/Writing or READ 3350 Reading in Content Areas	2-3		
ELED 3152 Teaching Math	3		
ELED 4140 Science of Elementary Teach.	2		
Electives *(must complete 5 hrs electives to Meet 120 hr degree requirements)	4-5		
<b>Total</b>	<b>35-36</b>		



## Secondary Education Social Studies/Economics

### Program of Study Secondary Education Social Studies/Economics

#### Program additions, deletions, and changes:

##### Additions:

Freshman Year, 1<sup>st</sup> Semester: Electives (1)  
Junior Year 1<sup>st</sup> Semester: Upper Division Econ. Elective (3)  
Junior Year 2<sup>nd</sup> Semester: ECON Elective (3)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

##### Deletions:

- EDPY 3300 (3)
- EXPW 2430 (2)
- CUED 4150 (3)
- FOED 3820 (1)
- FOED 3830 (1)
- SEED 4870 (5)
- SEED 4880 (5)
- SEED 4890 (2)
- SPED 3000 (3)
- ART or MUS 1030 (3)
- PHED Activity (1)

##### Changes:

**From:** MATH 1010 Int. Cont. Math (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** MATH: Approved Gen Ed (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** HIST 1020 Survey European Civ. (3) Junior Year, 2<sup>nd</sup> Semester

**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** SPCH 2410 Intro to Speech Comm. (3) Sophomore Year, 1<sup>st</sup> Semester

**To:** SPCH Intro to Speech Comm. (3) **Or** PC 2500 Comm. In the Professions (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** Move HIST 1010 Survey European Civ. (3) Junior Year, 1<sup>st</sup> Semester

**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** ANTH 1100 Intro. To Anthro (3) Sophomore Year, 2<sup>nd</sup> Semester

**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** ECON 2010 Intro to Microecon. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** ECON 2020 Intro to Macroecon. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** HIST1110 **Or** 1120 Wld. Civ. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** FOED 3010 Integr. Instr. Tech (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** READ 3350 Teach Rdg Content Area (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** HIST 4730 **Or** 4740 **Or** 4750 **Or** 4760 (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** ECON 4510 Int'l Trade & Fin. (3) Junior Year, 1<sup>st</sup> Semester  
**To:** Junior Year 2<sup>nd</sup> Semester

**From:** SEED 4124 M&M Tchg. S. St.(S) (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** SEED 4124/5124 MM Tchg SS (3) Junior Year, 2<sup>nd</sup> Semester

**From:** ECON U.D. Electives (5) Senior Year, 1<sup>st</sup> Semester  
**To:** Electives (5) Senior Year, 1<sup>st</sup> Semester

## (2011-2012 Catalog)

### Secondary Education Social Studies –Economics

#### SEED/SEEC

(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH approved Gen Ed	3	SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3
Science Sequence: Biol/Chem/Geol/Phys	8	EDPY 2200 Educational Psychology	3
HIST 2010 American History I	3	ANTH 1100 Intro to Anthropology	3
HIST 2020 American History II	3	ECON 2020 Principals of Macroeconomics	3
POLS 1000 American Government	3	GEOG 1120 Human Geography	3
Elective Any	1	HIST 1010 Survey European Civilization	3
FOED 1820 or 1822 Field Experience/Orientation	1	HIST 1020 Survey European Civilization	3
FOED 2011 Introduction to Teaching And Technology	2	PSY 2010 General Psychology	3
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	Electives	5
SEED 4124/5124 Materials and Methods of Teaching Social Studies	3	SEED 4871 Residency I	5
READ 3350 Teaching Reading in the Content Areas	3	SEED 4872 Professional Seminar I	5
HIST 1110 or 1120 World History	3	SEED 4881 Residency II	10
HIST 3100 Tennessee Topics	3	SEED 4882 Professional Seminar II	2
HIST 4730 or 4740 or 4750 or 4760	3	<b>Total</b>	<b>27</b>
ECON 2010 Microeconomics	3		
ECON 4510 International Trade Finance	3		
ECON 4530 History of Economic Thought	3		
ECON Elective	3		
Upper Division Elective	3		
<b>Total</b>	<b>33</b>		

## Secondary Education History (SEED SSHI)

### Program of Study Secondary Education History

#### Program additions, deletions, and changes:

##### Additions:

Freshman Year, 1<sup>st</sup> Semester: Elective (1)  
Senior Year, 1<sup>st</sup> Semester: Electives in Major Teaching Field (6)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

##### Deletions:

- **ART 1030 or MUS 1030 (3)**
- **PHED Activity (1)**
- **ECON 2020 (3)**
- **EXPW 2430 (2)**
- **CUED 4150 (3)**
- **FOED 3830 (1)**
- **FOED 3820 (1)**
- **EDPY 3300 (3)**
- **SPED 3000 (3)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**

##### Changes:

**From:** MATH 1010 Intro. Cont. Math (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** MATH Approved Gen Ed (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** SPCH 2410 Intro to Speech Com. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Fund. Public Speaking or PC 2500 Comm in the Prof (3)  
Sophomore Year, 1<sup>st</sup> Semester

**From:** HIST 1010 Surv. of Eur. Civ. (3) Junior Year, 1<sup>st</sup> Semester  
**To:** HIST 1010 Survey European Civ (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** HIST 1020 Surv. Eur. Civ. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** HIST 1020 Survey European Civ (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** HIST 3410 Introduction to Historical Methods (3) Sophomore Year, 1<sup>st</sup>  
Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** READ 3350 Tch Rdg in Content (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** READ 3350 Tchg Read Content (3) Junior Year, 1<sup>st</sup> Semester

**From:** FOED 3010 Integ. Instr. Tech (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** Electives (2) Junior Year, 2<sup>nd</sup> Semester  
**To:** Electives in Major Teaching Field (2) Junior Year, 1<sup>st</sup> Semester

**From:** HIST 4730 **Or** 4740 **Or** 4750 **Or** 4760 (3) Senior Year, 1<sup>st</sup> Semester  
**To:** HIST 4730 **Or** 4740 **Or** 4750 **Or** 4760 (3) Junior Year, 1<sup>st</sup> Semester

**From:** SEED 4124 M&M Tchg. Soc. St. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** SEED 4124/5124 M/M Teaching Social Studies (3) Junior Year, 2<sup>nd</sup> Semester

**From:** Electives (3) Junior Year, 1<sup>st</sup> Semester  
**To:** Electives in Major Teaching Field (6) Junior Year, 2<sup>nd</sup> Semester (**Adds 3 Credit Hours to Program of Study**)

(2011-2012 Catalog)

**Secondary Education Social Studies – History**

**SEED/SEHI**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH approved Gen Ed	3	SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3
Science Sequence: Biol/Chem/Geol/Phys	8	EDPY 2200 Educational Psychology	3
HIST 2010 American History I	3	ANTH 1100 Introduction to Anthropology	3
HIST 2020 American History II	3	GEOG 1120 Human Geography	3
POLS 1000 American Government	3	HIST 1010 Survey European Civilization	3
Elective Any	1	HIST 1020 Survey European Civilization	3
FOED 1820 or 1822 Field Experience/Orientation	1	HIST 1110 or 1120 World History	3
FOED 2011 Introduction to Teaching And Technology	2	PSY 2010 General Psychology	3
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	Electives	6
SEED 4124/5124 Materials and Methods of Teaching Social Studies	3	SEED 4871 Residency I	5
READ 3350 Teaching Reading in the Content Areas	3	SEED 4872 Professional Seminar I	5
HIST 3100 Tennessee Topics	3	SEED 4881 Residency II	10
HIST 3410 Intro to Historical Methods	3	SEED 4882 Professional Seminar II	2
HIST 4730 or 4740 or 4750 or 4760	3	<b>Total</b>	<b>28</b>
HIST Upper Division Electives	6		
Electives Any	8		
<b>Total</b>	<b>32</b>		

## Program of Study Secondary Education Science/Chemistry

Program additions, deletions, and changes:

### **Additions:**

Sophomore Year, 1<sup>st</sup> Semester: Approved Gen Ed SBS (6)  
Sophomore Year, 2<sup>nd</sup> Semester: Elective in Major Teaching Field (1)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co Req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

### **Deletions:**

- **PHED Activity (1)**
- **EDPY 3300 (3)**
- **CUED 4150 (3)**
- **FOED 3830 (1)**
- **ART 1030 Or MUS 1030 (3)**
- **FOED 3820 (1)**
- **EXPW 2430 (2)**
- **SPED 3000 (3)**
- **ECON 2010 Or GEOG 1120 Or POLS 1000 Or PSY 2010 Or SOC 1010 Or SOC/ANTH 1100 (3)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**

### **Changes:**

**From:** MATH 1710 Or 1530 (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** MATH 1530 Probs & Stats (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** MATH 1710 Pre Calc (3) Junior Year, 1<sup>st</sup> Semester (**Adds 3 Credit Hours**)

**From:** GEOL1040 The Dynamic Earth (4) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Freshman Year, 2<sup>nd</sup> Semester (4)

**From:** ENGL 2130 American Literature (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester (3)

**From:** BIOL 1010 Intro to Biology I (4) Freshman Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester (4)

**From:** BIOL 1020 Intro to Biology II (4) Freshman Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester (4)

**From:** ENGL 2230 Or 2330 (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester (3)

**From:** ECON 2010 **Or** GEOG 1120 **Or** POLS 1000 **Or** PSY 2010 **Or** SOC 1010 **Or** SOC/ANTH 1100 **(3)** Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Approved Gen Ed SBS **(3)**

**From:** ASTR 1010 **Or** 1020 Astronomy (4) Junior Year, 2<sup>nd</sup> Semester  
**To:** ASTR 1010 Or 1020 Or 1030 (4) Junior Year, 1<sup>st</sup> Semester

**From:** READ 3350 Tch Rdg Cont Area (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** CHEM 3005 Or 3010 Org. Chem **(3)** Sophomore Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (4) **(Adds 1 Credit Hour)**

**From:** FOED 3010 Integ. Instr. Tech. **(3)** Junior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester **(3)**

**From:** CHEM 3500 Phys Chem.(S) **(3)** Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester **(3)**

**From:** MATH 1830 Concepts of Calc. **(3)** Freshman Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester **(3)**

**From:** PHYS 2010 Physics I **(4)** Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester **(4)**

**From:** CHEM 3990 Spec. Prob. Chem. Ed. **(1)** Junior Year, 2<sup>nd</sup> Semester  
**To:** Senior Year, 1<sup>st</sup> Semester **(1)**

**From:** CHEM UD Elective **(3)** Senior Year, 1<sup>st</sup> Semester  
**To:** CHEM Elective **(2)** Senior Year, 1<sup>st</sup> Semester **(loss of 1 Credit Hour)**



(2011-2012 Catalog)

Secondary Education Science -Chemistry

SEED/SECH

(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230/2330 World/British Lit	3
MATH 1530 Probability & Statistics	3	HIST 2010 American History I	3
CHEM 1110 General Chemistry	4	HIST 2020 American History II	3
CHEM 1120 General Chemistry	4	BIOL 1010 Introduction to Biology	4
GEOL1040 The Dynamic Earth	4	BIOL 1020 Introduction to Biology II	4
SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3	EDPY 2200 Educational Psychology	3
Humanities & Fine Arts Any Gen Ed App.	3	Social/Behavioral Science Any Gen Ed App.	6
FOED 1820 or 1822 Field Experience/Orientation	1	Elective Any	1
FOED 2011 Introduction to Teaching And Technology	2	<b>Total</b>	<b>30</b>
<b>Total</b>	<b>30</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	CHEM 3990 Special Problems Chemistry Ed1	
SEED 4123 Materials and Methods of Teaching Science	3	CHEM Elective	2
READ 3350 Teaching Reading in the Content Areas	3	SEED 4871 Residency I	5
MATH 1710 PreCalculus	3	SEED 4872 Professional Seminar I	5
MATH 1830 Concepts of Calculus	3	SEED 4881 Residency II	10
ASTR 1010 or 1020 or 1030	4	SEED 4882 Professional Seminar II	2
PHYS 2010 Physics I	4	<b>Total</b>	<b>26</b>
CHEM 3005 or 3010 Organic Chemistry	4		
CHEM 3410 Quantitative Analysis	4		
CHEM 3500 Physical Chemistry	3		
<b>Total</b>	<b>34</b>		

## Secondary Education Social Studies/Political Science

### Program of Study Secondary Education Social Studies/Political Science

Program additions, deletions, and changes:

#### Additions:

Freshman Year, 2nd Semester: Elective (1)  
Senior Year 2<sup>nd</sup> Semester: Electives (5)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

#### Deletions:

- **EDPY 3300 (3)**
- **EXPW 2430 (2)**
- **CUED 4150 (3)**
- **FOED 3820 (1)**
- **FOED 3830 (1)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**
- **SPED 3000 (3)**
- **ART or MUS 1030 (3)**
- **PHED Activity (1)**

#### Changes:

**From:** POLS Elective (2) Junior Year, 2<sup>nd</sup> Semester  
**To:** POLS Elective (3) Junior Year, 2<sup>nd</sup> Semester – **(adds 1 hour)**

**From:** MATH 1010 Int. Cont. Math (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** MATH: Approved Gen Ed (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** HIST 1020 Survey European Civ. (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** SPCH 2410 Intro to Speech Comm. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Intro to Speech Comm. (3) **Or** PC 2500 Comm. In the Professions (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** Move HIST 1010 Survey European Civ. (3) Junior Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** ANTH 1100 Intro. To Anthro (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** ECON 2010 Intro to Microecon. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester

**From:** ECON 2020 Intro to Macroecon. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** HIST1110 **Or** 1120 Wld. Civ. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** FOED 3010 Integr. Instr. Tech (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** READ 3350 Teach Rdg Content Area (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester

**From:** HIST 4730 **Or** 4740 **Or** 4750 **Or** 4760 (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** SEED 4124 M&M Tchg. S. St.(S) (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** SEED 4124/5124 MM Tchg SS (3) Junior Year, 2<sup>nd</sup> Semester

(2011-2012 Catalog)

Secondary Education Social Studies – Political Science

SEED/SEPS

(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230 or 2330 World Literature	3
MATH approved Gen Ed	3	SPCH 2410 Intro to Speech or	
Science Sequence: Biol/Chem/Geol/Phys	8	PC 2500 Communicating in the Professions	3
HIST 2010 American History I	3	EDPY 2200 Educational Psychology	3
HIST 2020 American History II	3	ECON 2020 Principals of Macroeconomics	3
POLS 1000 American Government	3	ANTH 1100 Intro to Anthropology	3
Elective Any	1	GEOG 1120 Human Geography	3
FOED 1820 or 1822		HIST 1010 Survey European Civilization	3
Field Experience/Orientation	1	HIST 1020 Survey European Civilization	3
FOED 2011 Introduction to Teaching		PSY 2010 General Psychology	3
And Technology	2		
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional		Electives	5
Technology into the Classroom	3	SEED 4871 Residency I	5
SEED 4124/5124 Materials and Methods of		SEED 4872 Professional Seminar I	5
Teaching Social Studies	3	SEED 4881 Residency II	10
READ 3350 Teaching Reading in the		SEED 4882 Professional Seminar II	2
Content Areas	3		
HIST 1110 or 1120 World History	3	<b>Total</b>	<b>27</b>
HIST 3100 Tennessee Topics	3		
HIST 4730 or 4740 or 4750 or 4760	3		
POLS 3310 or 3320 or 3610 or 4960	3		
POLS 3330 State & Local Government	3		
POLS 3800 or 4360	3		
POLS 4510 Comparative Gov: Europe	3		
POLS Elective	3		
<b>Total</b>	<b>33</b>		

## Secondary Education – Speech and Theatre

### Program of Study Secondary Education – Speech and Theatre

Program additions, deletions, and changes:

#### Additions:

Junior Year, 2nd Semester: THEA 3300 Stagecraft (3)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co Req SEED 4872 Professional Seminar I (5)  
Elective (1)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

#### Deletions:

- **EXPW 2430 (2)**
- **EDPY 3300 (3)**
- **CUED 4150 (3)**
- **FOED 3830 (1)**
- **PHED 1120 Or 1130 Or 1140 Or 1250 Or 1260 Or 1320 Or 1430 Or Music Org. Option (1)**
- **SPED 3000 (3)**
- **FOED 3820 (1)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**

#### Changes:

**From:** PHED Activity (1) Freshman Year, 2<sup>nd</sup> Semester  
**To:** PE Activity (1) Sophomore Year, 1<sup>st</sup> Semester

**From:** ECON 2010 Or GEOG 1120 Or POLS 1000 Or PSY 2010 Or SOC 1010 Or SOC/ANTH 1100 (6) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Social/Behavioral Science (6) Sophomore Year, 2<sup>nd</sup> Semester

**From:** THEA 2150 Oral Interp. of Lit. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Sophomore Year, 2<sup>nd</sup> Semester (3)

**From:** ENGL 4121 Shakespeare (3) Senior Year, 1st Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** ENGL 3810 Or 3820 British Lit. (3) Sophomore Year, 1<sup>st</sup> Semester  
**To:** ENGL 3810 or 3820 British Lit or THEA 3001 Sp Topics: Voice/Diction (3) Junior Year, 1<sup>st</sup> Semester

**From:** FOED 3010 Integ. Instr. Tech (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** SPCH 3130 Speech Activities (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** ENGL 3910 Or 3920 Amer. Lit. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** THEA4300 Play Directing (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

(2011-2012 Catalog)

**Secondary Education Speech Communication/Theatre  
SEED/SPTH**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12 Speech/K-12 Theatre)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2330 World Literature	3
ENGL 1020 Writing II	3	HIST 2010 American History I	3
MATH 1010 Intro to Contemporary Or any approved Gen Ed Math	3	HIST 2020 American History II	3
SCIENCE SEQUENCE		SOCIAL BEHAVIORAL SCIENCE	
Biol/Chem/Geol/Phys	8	Any Gen Ed Approved	6
FRENCH/GERMAN/SPANISH 2010/2020	6	EDPY 2200 Educational Psychology	3
ART 1030 Or MUS 1030	3	PHED Any PHED Activity	1
THEA 1030 Intro to Theatre	3	SPCH 2410 Intro to Speech	3
FOED 1820 or 1822		THEA 2100 Acting	3
Field Experience/Orientation	1	THEA 2150 Oral Interpretation of Literature	3
FOED 2011 Introduction to Teaching And Technology	2	<b>Total</b>	<b>28</b>
<b>Total</b>	<b>32</b>		

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3	SPCH 4430 Interpersonal Communication	3
CUED 4120 Materials and Methods of Teaching Speech/Theatre	3	THEA 2110 Play Production	1
READ 3350 Teaching Reading in the Content Areas	3	Elective	1
ENGL 3810 or 3820 British Lit OR THEA 3001 Special Topics: Voice/Diction	3	SEED 4871 Residency I	5
ENGL 3910 or 3920 American Lit	3	SEED 4872 Professional Seminar I	5
ENGL 4121 Shakespeare	3	SEED 4881 Residency II	10
SPCH 3130 Speech Activities	3	SEED 4882 Professional Seminar II	2
SPCH 3630 Discussion and Parliamentary Procedure	3	<b>Total</b>	<b>27</b>
THEA 3300 Stagecraft	3		
THEA 4300 Play Directing	3		
THEA 4500 Creative Dramatics	3		
<b>Total</b>	<b>33</b>		

Secondary Education Special Education/Comprehensive

Program of Study Secondary Education Special Education/Comprehensive

**Program additions, deletions, and changes:**

**Additions:**

Freshman Year, 2 <sup>nd</sup> Semester:	GEOG 1120 Human Geography (3)
Sophomore Year, 1 <sup>st</sup> Semester:	HEC 2200 Dev. Young Child/Sped (3) ELED 2100 Prob Solv or Math Elect (3)
Junior Year, 1st Semester:	READ 3311 Literacy I (7) SPED Elective (3)
Junior Year, 2 <sup>nd</sup> Semester:	SPED Elective (5) ART 3200 Art Applications (2)
Senior Year, 1st Semester:	SPED 4871 Residency I (5) SPED 4872 Professional Seminar (5)
Senior Year, 2 <sup>nd</sup> Semester:	SPED 4881 Residency II (10) SPED 4882 Professional Seminar (2)

**Deletions:**

- **PHED Activities (2)**
- **SPED 2010 (3)**
- **HEC 2060 (2)**
- **PSY 2010 (3)**
- **SPED 2040 (3)**
- **EXPW 2130 (3)**
- **SPED 3040 (3)**
- **SPED 4000 (3)**
- **SPED 4320 (3)**
- **SPED 4340 (3)**
- **SPED 4821 (2)**
- **READ 3312 (5)**
- **FOED 3810 (1)**
- **SPED 4870 (5)**
- **SPED 4880 (5)**
- **SPED 4890 (2)**

**Change:**

<b>From:</b>	HIST 2010 American History I (3) Sophomore Year, 1 <sup>st</sup> Semester
<b>To:</b>	Freshman Year, 1 <sup>st</sup> Semester (3)
<b>From:</b>	FOED 2011 Intro. Tchg./Tech (3) Freshman Year, 1 <sup>st</sup> Semester
<b>To:</b>	FOED 2011 Intro. To Tchg./Tech (2) Freshman Year, 1 <sup>st</sup> Semester
<b>From:</b>	FOED 1820/1822 (Choose one Field Experience) (0) Freshman Year 1 <sup>st</sup> Semester
<b>To:</b>	FOED 1822/20 Int. Fld Exp. (1) Freshman Year 1 <sup>st</sup> Semester



**From:** HIST 2020 American History II (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Freshman Year, 2<sup>nd</sup> Semester (3)

**From:** SOC1010 Introduction to Sociology (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** Approved GE SBS (3) Sophomore Year, 1<sup>st</sup> Semester

**From:** ART 1030 **Or** MUS 1030 (3) Freshman Year, 2<sup>nd</sup> Semester  
**To:** Approved GE Humanities & FA (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** SPCH 2410 Intro to Speech Com (3) Senior Year, 1<sup>st</sup> Semester  
**To:** SPCH 2410 Intro to Speech Or PC 2500 Communicating in the Professions (3) Sophomore Year, 2<sup>nd</sup> 1<sup>st</sup> Semester

**From:** FOED 3010 Integ. Instr. Tech. (3) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** CFS 3600 Fam/Com/Prof. Part. (2) Senior Year, 1<sup>st</sup> Semester  
**To:** Junior Year, 1<sup>st</sup> Semester (2)

**From:** SPED 3020 Char/Nd Comp Ds (3) Junior Year, 2<sup>nd</sup> Semester  
**To:** SPED 3020 Comp Dis (3) Junior Year, 1<sup>st</sup> Semester

**From:** SPED 4200 Autism Disorders (3) Senior Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** SPED 3031 Phys. Mgt. Ortho/Motor/Health Impaired (3) Junior Year, 1<sup>st</sup> Semester  
**To:** SPED 3031 Ortho/Motor/Health Imp.(3) Junior Year, 2<sup>nd</sup> Semester

**From:** MUS 1074 Mus. Exc. Needs St. (1) Sophomore Year, 1<sup>st</sup> Semester  
**To:** MUS 1074 Music for Sp Needs (1) Junior Year, 2<sup>nd</sup> Semester

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**Special Education – Comprehensive  
SPED/SPEC**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades K-12)**

<b>Freshman Year</b>	sem. hrs.
ENGL 1010 Writing I	3
ENGL 1020 Writing II	3
MATH 1410 Survey Elementary Math I	3
MATH 1420 Survey Elementary Math II	3
HIST 2010 American History I	3
HIST 2020 American History II	3
BIOL 1310 Concepts of Biology	3
CHEM 1310 Concepts of Chemistry	3
GEOG1120 Human Geography	3
FOED 1820 or 1822 Field Experience/Orientation	1
FOED 2011 Introduction to Teaching And Technology	2
<b>Total</b>	<b>30</b>

<b>Sophomore Year</b>	sem. hrs.
ENGL 2130 American Literature	3
ENGL 2230 or 2330 British/World Literature	3
GEOL 1310 Concepts of Geology	3
PHYS 1310 Concepts of Physics	3
ELED 2100 Problem Solving or Math Elect	3
EDPY 2200 Educational Psychology	3
SPCH 2410 Intro to Speech Communication Or PC 2500 Professional Communication	3
HEC 2200 Development of the Young Child/SPED	3
Social/Behavioral Science Any Gen Ed	3
Humanities & Fine Arts Any Gen Ed	3
<b>Total</b>	<b>30</b>

<b>Junior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3
READ 3311 Literacy I	7
CFS 3600 School Community Partnerships	2
SPED 3020 Comprehensive Disabilities	3
SPED 3031 Physical Management and Support Services for Orthopedic, Motor and Health Impaired	3
SPED 4200 Autism Disorders	3
SPED 4030 Applied Behavior Analysis Practicum	3
SPED Electives	8
Art 3200 Art Applications	2
MUS 1074 Music for Special Needs	1
<b>Total</b>	<b>35</b>

<b>Senior Year</b>	sem. hrs.
EXPW 4520 Special Physical Education	3
SPED 4871 Residency I	5
SPED 4872 Professional Seminar I	5
SPED 4881 Residency II	10
SPED 4882 Professional Seminar II	2
<b>Total</b>	<b>25</b>

## Secondary Education Biology

### Program of Study Secondary Education Biology

Program additions, deletions, and changes:

#### Additions:

Freshman Year, 1<sup>st</sup> Semester: BIOL 1110 General Zoology (4)  
Freshman Year, 2<sup>nd</sup> Semester: Elective Gen Ed SBS (3)  
BIOL 1120 General Botany (4)  
Sophomore Year, 1<sup>st</sup> Semester: Elective Approved Gen Ed SBS (3)  
Sophomore Year, 2<sup>nd</sup> Semester: Elective (1)  
Junior Year, 1<sup>st</sup> Semester: BIOL 2010 Human Anatomy & Phys I (4)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

#### Deletions:

- **BIOL 1010 (4)**
- **PHED Activity (1)**
- **BIOL 1020 (4)**
- **EXPW 2430 (2)**
- **BIOL 2350 (4)**
- **CUED 4150 (3)**
- **FOED 3830 (1)**
- **FOED 3820 (1)**
- **ECON 2010 Or GEOG 1120 Or POLS 1000 Or PSY 2010 Or SOC 1010 Or SOC/ANTH 1100 (6)** - [Junior Year, 2<sup>nd</sup> Semester (3) and Senior Year, 1<sup>st</sup> Semester (3)]
- **EDPY 3300 (3)**
- **SPED 3000 (3)**
- **SEED 4870 (5)**
- **SEED 4880 (5)**
- **SEED 4890 (2)**

#### Changes:

**From:** GEOL 1040 The Dynamic Earth (4) Freshman Year, 1<sup>st</sup> Semester  
**To:** GEOL 1040 The Dynamic Earth (4) Freshman Year, 2<sup>nd</sup> Semester

**From:** MATH 1710 Or 1530 (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** MATH 1530 Probability and Stats (3) Freshman Year, 1<sup>st</sup> Semester (and)  
**To:** MATH 1710 Pre Calc (3) Junior Year, 1<sup>st</sup> Semester (**adds 3 Credit Hrs**)

**From:** PHYS 2010 Physics I (4) Freshman Year, 2<sup>nd</sup> Semester  
**To:** Junior Year, 2<sup>nd</sup> Semester (4)

**From:** SPCH 2410 Intro to Speech Com. **Or** PC 2500 Comm. in the Prof.  
(3) Sophomore Year, 1<sup>st</sup> Semester

**To:** SPCH 2410 Intro to Speech **OR** PC 2500 Communicating in the  
Professions (3) Freshman Year, 1<sup>st</sup> Semester

**From:** ART 1030 Art Appreciation **Or** MUS 1030 Music Appreciation (3)  
Freshman Year, 2<sup>nd</sup> Semester

**To:** Approved Gen Ed HUM FA (3) Freshman Year, 2<sup>nd</sup> Semester

**From:** MATH 1830 Conc. Of Calculus (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** Junior Year, 2<sup>nd</sup> Semester (3)

**From:** BIOL 3130 Gen Ecology (4) Sophomore Year, 1<sup>st</sup> Semester

**To:** Junior Year, 1<sup>st</sup> Semester (4)

**From:** BIOL 3920 Biol. Comm. Sk. (3) Junior Year, 1<sup>st</sup> Semester

**To:** Senior Year, 1<sup>st</sup> Semester (3)

**From:** ASTR 1010 **Or** 1020. Civ. (4) Junior Year, 1<sup>st</sup> Semester

**To:** ASTR 1010 OR 1020 OR 1030 (4) Junior Year, 2<sup>nd</sup> Semester

**From:** READ 3350 Tch Rdg Cont Area (3) Senior Year, 1<sup>st</sup> Semester

**To:** READ 3350 Tchg Rdg Content (3) Junior Year, 1<sup>st</sup> Semester

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**Secondary Education Science –BIOLOGY**

**SEED/SEBI**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)**

<b>Freshman Year</b>	sem. hrs.
ENGL 1010 Writing I	3
ENGL 1020 Writing II	3
MATH 1530 Probability & Statistics	3
BIOL 1110 General Zoology	4
BIOL 1120 General Botany	4
GEOL1040 The Dynamic Earth	4
Humanities & Fine Arts Any Gen Ed App.	3
Social Behavioral Science Any Gen Ed App.	3
SPCH 2410 Intro to Speech or PC 2500 Communicating in the Professions	3
FOED 1820 or 1822 Field Experience/Orientation	1
FOED 2011 Introduction to Teaching And Technology	2
<b>Total</b>	<b>33</b>

<b>Sophomore Year</b>	sem. hrs.
ENGL 2130 American Literature	3
ENGL 2230 or 2330 World Literature	3
HIST 2010 American History I	3
HIST 2020 American History II	3
CHEM 1110 General Chemistry	4
CHEM 1120 General Chemistry	4
EDPY 2200 Educational Psychology	3
Social Behavioral Science Any Gen Ed App.	3
Elective	1
<b>Total</b>	<b>27</b>

<b>Junior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional Technology into the Classroom	3
SEED 4123 Materials and Methods of Teaching Science	3
READ 3350 Teaching Reading in the Content Areas	3
ASTR 1010 or 1020 or 1030	4
BIOL 2010 Human Anatomy & Physiology I	4
BIOL 3130 General Ecology	4
BIOL 3810 General Genetics	4
MATH 1710 Pre Calculus	3
MATH 1830 Concepts of Calculus	3
PHYS 2010 Physics I	4
<b>Total</b>	<b>35</b>

<b>Senior Year</b>	sem. hrs.
BIOL 3920 Biological Communication Skills	3
SEED 4871 Residency I	5
SEED 4872 Professional Seminar I	5
SEED 4881 Residency II	10
SEED 4882 Professional Seminar II	2
<b>Total</b>	<b>25</b>

## Secondary Education Earth Science

### Program of Study Secondary Education – Earth Science

Program additions, deletions, and changes:

#### **Additions:**

Freshman Year, 2nd Semester: Approved Gen Ed SBS (3)  
Elective in Major Teaching Field (1)  
Sophomore Year, 1<sup>st</sup> Semester: Approved Gen Ed SBS (3)  
Junior Year, 1<sup>st</sup> Semester: GEOL 3230 Structural Geol (4)  
Senior Year 1<sup>st</sup> Semester: SEED 4871 Residency I (5)  
Co Req SEED 4872 Professional Seminar I (5)  
Senior Year 2<sup>nd</sup> Semester: SEED 4881 Residency II (10)  
Co Req SEED 4882 Professional Seminar II (2)

#### **Deletions:**

- CHEM 1010 (4)
- PHED Activity (1)
- EXPW 2430 (2)
- ECON 2010 **Or** GEOG 1120 **Or** POLS 1000 **Or** PSY 2010 **Or** SOC 1010 **Or** SOC/ANTH 1100 (6)
- CUED 4150 (3)
- FOED 3830 (1)
- EDPY 3300 (3)
- FOED 3820 (1)
- SPED 3000 (3)
- SEED 4870 (5)
- SEED 4880 (5)
- SEED 4890 (2)

#### **Changes:**

**From:** MATH 1710 **Or** 1530 (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** MATH 1530 Probs & Stats (3) Freshman Year, 1<sup>st</sup> Semester  
**To:** MATH 1710 Pre Calc (3) Junior Year, 1<sup>st</sup> Semester (**Adds 3 Credit Hours**)

**From:** ART 1030 Art Appreciation **Or** MUS 1030 Music Appreciation (3)  
Freshman Year, 2<sup>nd</sup> Semester  
**To:** Approved Gen Ed HUM FA (3) Freshman Year, 2<sup>nd</sup> Semester (3)

**From:** EDPY 2200 Educational Psy. (3) Sophomore Year, 2<sup>nd</sup> Semester  
**To:** Sophomore Year, 1<sup>st</sup> Semester

**From:** SPCH 2410 Intro to Speech Comm. **Or** PC 2500 Comm. In the Prof. (3)  
Sophomore Year, 1<sup>st</sup> Semester

**To:** SPCH 2410 Intro to Speech Comm. OR PC 2500 Communicating in the Professions (3) Sophomore Year, 2<sup>nd</sup> Semester

**From:** ASTR 1010 Or 1020 Astronomy (4) Senior Year, 1<sup>st</sup> Semester

**To:** ASTR 1010 Or 1020 Or 1030 (4) Sophomore Year, 2<sup>nd</sup> Semester

**From:** PHYS 1310 Conc. of Physics (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** Junior Year, 1<sup>st</sup> Semester

**From:** FOED 3010 Integ. Instr. Tech. (3) Junior Year, 2<sup>nd</sup> Semester

**To:** Junior Year, 1<sup>st</sup> Semester (3)

**From:** GEOL 3410 Paleontology (4) Senior Year, 1<sup>st</sup> Semester

**To:** GEOL 3410 Paleontology \*\* (or other 3000 course) (4) Junior Year, 2<sup>nd</sup> Semester

**From:** MATH 1830 Conc. of Calculus (3) Freshman Year, 2<sup>nd</sup> Semester

**To:** Junior Year, 2<sup>nd</sup> Semester

**From:** BIOL 3130 General Ecology (F) (4) Sophomore Year, 1<sup>st</sup> Semester

**To:** Junior Year, 2<sup>nd</sup> Semester (4)

**From:** Soils Or Weather Elective (3) Senior Year, 1<sup>st</sup> Semester

**To:** Electives in Major Teaching Field (3) Senior Year, 1<sup>st</sup> Semester

**From:** GEOL 4810 Special Problems (1) Junior Year, 2<sup>nd</sup> Semester

**To:** Senior Year, 1<sup>st</sup> Semester (1)

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**Secondary Education Science –Earth Science**

**SEED/SCEA**

**(Leading to a Bachelor of Science Degree in Education with endorsement, Grades 7-12)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010 Writing I	3	ENGL 2130 American Literature	3
ENGL 1020 Writing II	3	ENGL 2230/2330 World/British Lit	3
MATH 1530 Probability & Statistics	3	HIST 2010 American History I	3
BIOL 1010 Introduction to Biology	4	HIST 2020 American History II	3
BIOL 1020 Introduction to Biology II	4	SPCH 2410 Intro to Speech or	
Social Behavioral Science Any Gen Ed App.	3	PC 2500 Communicating in the Professions	3
Humanities & Fine Arts Any Gen Ed Appr.	3	EDPY 2200 Educational Psychology	3
FOED 1820 or 1822		ASTR 1010 or 1020 or 1030	4
Field Experience/Orientation	1	GEOL1040 The Dynamic Earth	4
FOED 2011 Introduction to Teaching		GEOL 1045 Geology and Environment	4
And Technology	2	Social Behavioral Science Any Gen Ed App.	3
Elective Any	1		
<b>Total</b>	<b>27</b>	<b>Total</b>	<b>33</b>

<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
FOED 3010 Integrating Instructional		GEOL 4810 Special Problems	1
Technology into the Classroom	3	Electives	3
SEED 4123 Materials and Methods of		SEED 4871 Residency I	5
Teaching Science	3	SEED 4872 Professional Seminar I	5
READ 3350 Teaching Reading in the		SEED 4881 Residency II	10
Content Areas	3	SEED 4882 Professional Seminar II	2
BIOL 3130 General Ecology	4		
PHYS 1310 Concepts of Physics	3	<b>Total</b>	<b>26</b>
GEOL 3230 Structural Geology	4		
GEOL 3410 Paleontology			
Or other 3000 course	4		
GEOL 4150 Geomorphology	4		
MATH 1710 Pre Calculus	3		
MATH 1830 Concepts of Calculus	3		
<b>Total</b>	<b>34</b>		

**Motion.** Ms. Mannle moved to approve the remaining proposals effective Fall 2011. The motion was seconded by Dr. Jordan and carried.



**19. Approval of Curriculum Change to Option in Bachelor of Music in Performance/Music Business**

In a memorandum dated March 9, 2011, approval was requested for the following:

Curriculum Change:

1. Move ECON 2010 Principles of Microeconomics and ECON 2020 Principles of Macroeconomics to the Junior year.
2. Move BMGT 3510 Management & Organizational Behavior and MKT 3400 Principles of Marketing to the Senior year.

**Motion.** Mr. LaBar moved to approve the changes effective Fall 2011. The motion was seconded by Dr. Bailey.

Upon a recommendation from Dr. Natarajan, the list of courses in the curriculum (footnote 3) to be selected in consultation with the student's advisor should also list the required prerequisites for each course.

This was accepted as a friendly amendment and the motion carried.

**20. Approval of Course Change from the Department of Music and Art**

In a memorandum dated March 9, 2011, approval was requested for the following:

Course Change:

From:

MUS 3020 Music History and Literature II

Prerequisites: MUS 1030, 1140, 1150. Western music of the Romantic period and 20<sup>th</sup> Century.

Expansion of research experience on a variety of musical topics.

To:

MUS 3020 Music History and Literature II

Prerequisites: MUS 1030, 1140, 1150, 3010. Western music of the Romantic period and 20<sup>th</sup> Century.

Expansion of research experience on a variety of musical topics.

**Motion.** Mr. LaBar moved to approve the change effective Fall 2011. The motion was seconded by Dr. Jordan and carried.

**Approval of the Concept of a Five-Semester Upper-Division Nursing Curriculum from the Whitson-Hester School of Nursing**

In a memorandum dated March 10, 2011, approval was requested for the following:

Request:

Approval of the concept of revising the current upper-division nursing program to be offered over five semesters. This approval will allow the faculty to initiate the process of revising the curriculum.

**Motion.** Dr. Gains moved to approve the concept. The motion was seconded by Dr. Talbert and carried.

**21. Election of 2011-12 Chairperson**

Ms. Mannle, representing the nomination committee comprised of herself, Dr. Loutzenheiser and Dr. Jordan-Wagner, presented the nomination of Dr. Laurila for the 2011-12 chairperson.

**Motion.** Dr. Talbert moved to cease nominations and elect Dr. Laurila. The motion was seconded by Dr. Fesler and carried.

Dr. Armistead commended Dr. Raymondo for a job well done.

## **22. Other Such Matters**

Ms. Whiteaker presented the following memo for informational purposes only:

RE: Learning Support Courses [Informational Issues]

Because of recent legislation and the TBR's Developmental Redesign Initiative, beginning with the Fall 2011 school year, students in TTU's Learning Support courses will be reported on Vol State's FTE but will be receiving Learning Support on TTU's campus with TTU's Learning Support Program faculty. Our Learning Support Program will continue to offer free academic tutoring [Learning Support] for both developmental/learning-support classes and college-level classes on a walk-in or scheduled basis. [The tutoring lab is in Matthews Hall 162B.]

The University will have the responsibility for registration of the students for Learning Support Courses and will collect the various fees associated with registration. Since these courses will, therefore, need to continue to appear in TTU's registration system and in materials used by advisors and departments who have students requiring learning support, a few changes mandated by TBR should be noted:

1. Anything that has formerly been referred to as Remedial/Developmental, Developmental Studies, Academic Development Program, and/or ADP will now fall under the heading of **Learning Support Program**.
2. Course Rubrics have changed [per Paula Short at TBR]:  
DSPM0800/0850 will become **MATH 08XX**  
DSPR0800 will become **READ 08XX**  
DSPW0800 will become **ENGL 08XX**  
As with our previous classes, the '08' designates the credits as less than college level. The 'XX' fields are for the institutions to track up to 99 variables as needed for tracking student success and differences in approaches and to facilitate transfers among institutions. There will also be a designation, probably in the section number, indicating that our courses will be reported through Vol State.
3. ACT cut scores have changed. According to the newly revised A-100 Guidelines, we will be operating under a set of interim cut scores from Fall 2011 until Fall 2013. These changes will primarily affect enrollments in English. Our most recent guidelines have placed students into developmental courses if their ACT subscores in English, Math, and/or Reading have been below 19. The NEW cut scores will place students who have an ACT English subscore of 18 in English 1010. Both Math and Reading placement will be based on the "less-than-19" rule.

We have almost become adjusted to answering our phone with "Learning Support" rather than "ADP." Adjustment to the new changes will take some time for all of us.

## **23. Approval of Course Addition, Course and Curriculum Changes from the Department of Manufacturing and Industrial Technology**

In a memorandum dated March 14, 2011, approval was requested for the following:

### Course Addition:

**MIT 1835. Applications of Math in Engineering Technology Lab: Lab 2. Credit 1.**

Prerequisites: Math 1830, ENGR 1120. Use of integral and differential calculus with numerical

applications for engineering technology.

Course Changes:

From:

MIT 3403 Applied Machine Elements Lec. 2, Lab. 2, Cr. 3

Prerequisites: MIT 3301, ME 3110, PHYS 3010. Static and dynamic properties of materials. Principles of machine elements calculations, components, selection, assembly and lubrication.

To:

MIT 3403 Applied Machine Elements Lec. 2, Lab. 2, Cr. 3

Prerequisites: MIT 2400, 3301, ME 3110, PHYS 2010. Static and dynamic properties of materials. Principles of machine elements calculations, components, selection, assembly and lubrication.

From:

MIT 4620 Senior Projects Lec. 2, Lab. 2, Cr. 3

Prerequisite: Senior Standing. This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving an industrial problem. It requires the application of design, manufacturing processing, project management plan, and public presentation of results.

To:

MIT 4620 Senior Projects Lec. 2, Lab. 2, Cr. 3

Prerequisite: MIT 3403, 4200. This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving an industrial problem. It requires the application of design, manufacturing processing, project management plan, and public presentation of results.

Curriculum Changes:

- Change MIT 2400 from an elective course to a required course (3 CH)
- Drop ENGR 1210
- Change the required “MATH 1910 or MATH 1830” to “MATH 1910 or MATH 1830 + MIT 1835”
- Change MATH 1730 to MATH 1720

**Motion.** Dr. Elsayy requested to delete ECE 3835 as a Technical Elective under footnote 4 of the curriculum. He moved to approve the addition and changes effective Fall 2011. The motion was seconded by Talbert and carried.

The meeting was adjourned.

5/17/11