

# TTU Curriculum Committee

## Tennessee Technological University

---

The University Curriculum Committee met October 29, 2009 at 3:00 p.m. in the Deans Conference Room, Derryberry Hall.

### Members Present

Dr. Jack Armistead  
Dr. Pat Bagley  
Dr. Sue Bailey  
Dr. Dan Combs  
MAJ Scott Dickey  
Mr. Ward Doubet  
Ms. Edith Duvier  
Dr. Kurt Eisen  
Dr. David Elizandro  
Dr. Ahmed Elsayy  
Ms. Julie Galloway  
Dr. Bruce Greene  
Dr. Mike Harrison  
Dr. Bobby Hodum  
Dr. Darrell Hoy  
Dr. Sharon Huo  
Dr. Steve Isbell  
Dr. Homer Kemp  
Dr. Maretta Laurila

Dr. Roy Loutzenheiser  
Ms. Beth Mannle  
Dr. Allan Mills  
Dr. Francis Otuonye  
Dr. Larry Peach  
Dr. James Raymondo  
Ms. Beth Rogers  
Dr. Jeff Roberts  
Dr. Stephen Robinson  
Dr. Paul Semmes  
Dr. Matt Smith  
Dr. Barry Stein  
Dr. Mark Stephens  
Dr. Doug Talbert  
Ms. Janet Whiteaker  
Ms. Jerri Winningham  
Ms. Ashley Wisekal  
Ms. Laura Horton  
Mr. Nick Reed

### Members Absent

Dr. Pedro Arce  
Dr. Curtis Armstrong  
Dr. Rita Barnes  
Dr. Jeff Boles  
Dr. Susan Elkins  
Dr. Dan Fesler  
Dr. Sheila Green  
Dr. David Huddleston

Dr. Pat Jordan  
Dr. James Jordan-Wagner  
Mr. Ted LaBar  
Ms. Deanna Nipp-Kientz  
Dr. Stephen Parke  
Mr. Caleb Petty  
Mr. Matthew Bedford

### Official Representatives

### Guests

Ms. Denise Hensley  
Dr. Glenn James  
Dr. Linda Null

Dr. Melinda Anderson  
Dr. Sandy Smith

## **SUMMARY OF PROCEEDINGS**

- I. Approval of agenda
- II. Approval of September 17, 2009 minutes
- III. Committee on UNIV 1020 Recommendations
- IV. Permission Statement
- V. American History Requirement
- VI. Approval of course changes from the Department of Curriculum & Instruction
- VII. Approval of course and curriculum changes from the School of Human Ecology
- VIII. Approval of course and curriculum changes from the Department of Earth Sciences
- IX. Approval of course addition from the Department of Foreign Languages
- X. Approval of course addition from the Department of Manufacturing & Industrial Technology
- XI. Approval of course changes from the Department of Basic Engineering
- XII. Approval of course addition from the Department of Electrical and Computer Engineering
- XIII. Approval of course and curriculum changes from the Department of Mechanical Engineering
- XIV. Other Such Matters - Plagiarism tool - Turnitin

## **PROCEEDINGS**

### **Approval of Agenda**

Motion. Dr. Talbert moved to approve the agenda. The motion was seconded by Dr. Elsayy and carried.

### **Approval of minutes**

Dr. Talbert requested the following typo be corrected under the CSSC curriculum: "Add an advising note to remind students ~~that~~ to include enough upper division electives."

Motion. Dr. Stein moved to approve the September 17, 2009, minutes as corrected. The motion was seconded by Dr. Elsayy and carried.

### **Committee on UNIV 1020 Recommendations**

Dr. Linda Null reported on the adhoc committee's recommendations, as found in the memo below, regarding issues involving UNIV 1020.

At the September 17, 2009, University Curriculum Committee meeting, three related issues involving UNIV 1020 arose: (1) When a student fails UNIV 1020 or its equivalent and retakes a different UNIV 1020 equivalent course, will the grade in the UNIV 1020 course the student took the second time replace the first grade? (2) How can we deal with students who enroll in multiple UNIV 1020 courses, in particular when they have already passed one UNIV 1020 course? (3) Can a student receive credit for more than one UNIV 1020 course?

To address item (1):

At the February 15, 2007, meeting, the University Curriculum Committee received the following information item:

**Information - Handling of UNIV (and discipline-related) 1020 courses in regard to exceptions, substitutions, and repeat procedures**

Mr. Hodum explained that exceptions, substitutions, and repeat procedures for UNIV 1020 and discipline related courses were being handled on a case-by-case basis. Students are required to fill out a Request for Exception form, which is then processed through the proper channels. Mr. Hodum stated the Enrollment Management Office works with the academic department involved on each case.

With regard to students who take a UNIV 1020 course and fail, then take a UNIV 1030 and pass, Mr. Hodum stated he would like to standardize that the UNIV 1030 grade replace the UNIV 1020 course. This is the current standard of practice and if there is no opposition to the handling of these cases in this way, they will continue to do so.

The minutes do not record any opposition to this approach. Dr. Hodum says that it is working well. We recommend its continued use. When a student fails UNIV 1020 and takes BIOL 1000 (a UNIV 1020 equivalent course) and passes, the case is handled in a slightly different way. The student can submit an exception form to have the passing grade in BIOL 1000 replace the failing grade in UNIV 1020. The Records Office indicates that this approach is working well, so we recommend that it be continued.

[Exception: If a student is required to take UNIV 1030 and fails it, the student must repeat UNIV 1030 because UNIV 1030 is not only a UNIV 1020 equivalent course but is also part of the TBR mandate for study skills/learning strategies instruction for students required to take two or more areas of developmental classes.]

To address item (2):

The committee is still investigating item 2.

To address item (3):

Bobby Hodum explained how the University now handles situations where a student takes more than one UNIV 1020 course: “[i]f a student takes a UNIV 1020 course and

an HON 1010 and UNPP 1020, etc, they would receive credit for each course and it would be up to the department if they would allow the credit towards graduation. If a student takes HON 1010 and then takes the same course again, that would be an unauthorized repeat and the student would receive credit for only one course.”

Dr. Hodum feels that the way the University now deals with issue three is working well. For that reason, we recommend no change. Note, however, that we are working on a way to discourage students from taking more than one UNIV 1020 course (item 2).

### **Permission Statement**

Ms. Julie Galloway, speaking for the subcommittee on the Permission statement, presented the following recommendations to unify actions for permission statement.

### **2009-2010 University Curriculum Committee**

### **Subcommittee from September 17, 2009 Meeting**

Pat Bagley, Shirley Dyer, David Elizandro, Julie Galloway, Denise Hensley, Roy Loutzenheiser, Doug Talbert, and Jerri Winningham

### **Task 1. “Permission”**

Guidelines for formatting UG Catalog course description:

#### **Example A:**

CHE 3111. Transfer Science I: Conduction, Radiation, and Diffusion.

Lec. 3. Lab. 2. Credit 4.

Prerequisites: CHE 2011, MATH 2110 and Departmental Approval. Energy and mass conservation principles. Experimental studies of heat and diffusive mass transfer. Design and operation of systems for heat and mass transfer with applications to heat exchange and diffusive motion. CHE 2011 and MATH 2110 may be taken concurrently.

#### **Example O:**

CHE 3111. Transfer Science I: Conduction, Radiation, and Diffusion.

Lec. 3. Lab. 2. Credit 4.

Prerequisites: CHE 2011, MATH 2110 or Departmental Approval. Energy and mass conservation principles. Experimental studies of heat and diffusive mass transfer. Design and operation of systems for heat and mass transfer with applications to heat exchange and diffusive motion. CHE 2011 and MATH 2110 may be taken concurrently.

#### **Comments:**

1. Example A has an “and” which implies that approval from the department is mandatory of all students who sign up for this course. Therefore, all students must obtain a permit.

2. Example O has an “or” which implies that approval from the department is NOT mandatory of all students who sign up for this course. Students who have earned credit for CHE 2011 and MATH 2110 or currently taking CHE 2011 and MATH 2110 do not need a permit to sign up for CHE 3111. Students who have NOT earned credit for CHE 2011 and MATH 2110 and who are not currently taking CHE 2011 and MATH 2110 must obtain a permit from the CHE Department to register for CHE 3111.
3. “**Departmental Approval**” is sufficient to describe where a student must seek permission. Common terminology will be more student friendly. The titles of instructor, chairperson, director, etc. are not needed because the student must, at a minimum, go to the Department to obtain a permit. The terms permission of, consent of, etc. are not needed. The two words provide a clear, concise message that can be used by all.

### **Task 2. Multiple Course Numbers – Special Problems, etc.**

This task is still being studied because of multiple issues. However, the following point is clear: a student may NOT register for multiple sections of a single course in one semester.

### **American History Requirement for a Second Undergraduate Degree**

Dr. Armistead present the following changes from the Tennessee Board of Regents:

## **REQUIREMENTS FOR A SECOND UNDERGRADUATE DEGREE**

A student may qualify for a second baccalaureate degree from Tennessee Technological University by completion of a minimum of 30 semester hours at Tennessee Technological University beyond the requirements for the first baccalaureate degree, providing the student meets all prescribed requirements in the specified curriculum for the second degree and with the approval of the chairperson of the department offering the second degree.

A person who has a baccalaureate degree from another institution\* and who, in addition, desires a baccalaureate degree from Tennessee Technological University must fulfill all requirements for a second degree as stated in the previous paragraph and must complete a minimum of 25 percent of the credit for the degree in residence. TTU general education requirements will be considered met, with the following exceptions:

~~(a) Two semesters of American History (equivalent to TTU's HIST 2010-2020) must be completed, in accordance with state law, unless the second degree is to be in Engineering and the student has passed an academic year course in American history in secondary school.~~

~~(b)~~ (a) Any general education courses that are required for progression in the major program must be completed.

~~(c)~~ (b) In addition, if the first baccalaureate degree is from a non U.S.-English-speaking university, the student must complete ESL 1010, 1020, and/or pass the English Placement Test.

\*American institutions degrees must be regionally accredited by an approved agency, and foreign institutions must be approved as "reputable." These approvals will be obtained through consultation with the Director of International Student Affairs, the relevant TTU department chairs, and/or appropriate faculty members.

### **Approval of Course and Curriculum Changes from the Department of Curriculum and Instruction**

In three memorandums dated October 6, 2009, approval was requested for the following:

Memo 1

#### **Proposed Course Change ECED 3310: Practicum Concepts for Yng Chldrn**

From:

Corequisites: ECED 3300 and READ 3300. Full admission to the Teacher Education Program. Supervised teaching of integrated learning experiences in appropriate settings for preschooler-Grade 4 students.

1 cr hrs

4 lab hrs

To:

Corequisites: ECED 3300 and READ 3311. Full admission to the Teacher Education Program. Supervised teaching of integrated learning experiences in appropriate settings for preschooler-Grade 4 students.

1 Cr hrs

4 lab hrs

Memo 2

#### **Proposed Course Change ECED 3300: Concepts/Chld: Math, Sci, Soc Stu**

From:

Corequisites: ECED 3310, READ 3300, and FOED 3810. Full admission to the Teacher Education Program. Developmentally appropriate materials and methods for integrated learning experiences in mathematics, science and social studies. focus is on diverse and inclusive populations ages B-9.

3 cr hrs

4 lec hrs

To:

Corequisites: ECED3310, READ3311, and FOED3810. Full admission to the Teacher Education Program. Developmentally appropriate materials and methods for integrated learning experiences in mathematics, science and social studies. Focus is on diverse and inclusive populations ages B-9.

3 cr hrs

4 lec hrs

Memo 3

#### **Program Additions**

CUED 4856: Topics

1 cr. hr.

CUED 4857: Topics

1 cr. hr.

CUED 4858: Topics

1 cr. hr.

CUED 4859: Topics

1 cr. hr.

CUED 4860: Topics

1 cr. hr.

Motion: Dr. Smith moved to approve the changes effective Spring 2010. The motion was seconded by Dr. Stein and carried.

### **Approval of Course Changes from the School of Human Ecology**

In a memorandum dated October 14, 2009, approval was requested for the following:

#### **Course Changes**

##### **Human Ecology Core Courses:**

###### **From:**

HEC 1000. Introduction to the Profession. Lec. 1

Prerequisite: Human Ecology Major and Child and Family Studies major and minor or consent of instructor.

###### **To:**

HEC 1000. Introduction to the Profession. Lec. 1

Prerequisite: Human Ecology major or minor.

###### **From:**

HEC 1030. Introduction to Nutrition. Lec. 2. Credit 2.

Principles of basic nutrition for personal lifestyle choices and selection of foods for promotion and maintenance of health throughout the lifespan. A student may not earn credit in both HEC 1030 and HEC 2020.

###### **To:**

HEC 1030. Introduction to Nutrition.

Lec. 2. Credit 2.

Principles of basic nutrition for personal lifestyle choices and selection of foods for promotion and maintenance of health throughout the lifespan.

###### **From:**

HEC 2020. Nutrition. Lec. 3. Credit 3.

Prerequisite: Sophomore or above or by permission. Principles of nutrition. Emphasis

upon the function, food sources, recommended intake, and assimilation of each of the six nutrient classes. A student may not earn credit in both HEC 1030 and HEC 2020.

**To:**

HEC 2020. Nutrition. Lec. 3. Credit 3.

Prerequisite: Sophomore, junior, or senior. Principles of nutrition. Emphasis upon the function, food sources, recommended intake, and assimilation of each of the six nutrient classes. HEC 1030 cannot be substituted for HEC 2020.

**From:**

HEC 3000. Consumer Economics. Lec. 2. Credit 2.

Current and future issues affecting the production, allocation and consumption of consumer goods and services by individuals and families.

**To:**

HEC 3000. Consumer Economics. Lec. 2. Credit 2.

Prerequisite: Sophomore, junior, or senior. Current and future issues affecting the production, allocation and consumption of consumer goods and services by individuals and families.

### **General Human Ecology Courses**

**From:**

HEC 4900 (5900). Special Topics. Credit 1-7.

Prerequisite: Junior or senior standing; consent of instructor. Research in contemporary developments in human ecology. May be repeated. Maximum seven hours.

**To:**

HEC 4900 (5900). Special Topics. Credit 1-7.

Prerequisite: Departmental approval. Research in contemporary developments in human ecology. May be repeated. Maximum seven hours.

**From:**

HEC 4990 (5990). Internship.\* Credit 6, 8, 12.

Prerequisites: HEC 4000, HEC 4450 (for HEHO only), and senior standing in Human Ecology.

**To:**

HEC 4990 (5990). Internship.\* Credit 6, 8, 12.

Prerequisites: Human Ecology major, departmental approval.

### **Child Development and Family Relations**

**From:**

HEC 3700. Development: Young Adulthood/Aging. Lec. 3. Credit 3.

Prerequisite: HEC (CFS) 1010; HEC (CFS) 2200; HEC (CFS) 2210. Development and



change from young adulthood through aging. Programs serving adults and the aging population.

**To:**

HEC 3700. Development: Young Adulthood/Aging. Lec. 3. Credit 3.

Prerequisite: HEC 1010. Development and change from young adulthood through aging. Programs serving adults and the aging population.

**From:**

HEC 4610. Families: Normative/Catastrophic Issues. Lec. 3. Credit 3.

Prerequisite: Junior or Senior standing. In depth study of family stress and effective coping mechanisms that relate to normative transitions and crisis events. Preparation for internships.

**To:**

HEC 4610. Families: Normative/Catastrophic Issues. Lec. 3. Credit 3.

Prerequisites: Junior or senior standing; HEC 2060. In depth study of family stress and effective coping mechanisms that relate to normative transitions and crisis events. Preparation for internships.

### **Family and Consumer Sciences Education**

**From:**

HEC 3840. Occupational Family and Consumer Sciences. Lec. 2. Credit 2.

Prerequisite: HEC 3800. Organization and operation of Occupational Family and Consumer Sciences Programs at high school and adult levels.

**To :**

HEC 3840. Occupational Family and Consumer Sciences. Lec. 2. Credit 2.

Prerequisite: HEC 2800. Organization and operation of Occupational Family and Consumer Sciences Programs at high school and adult levels.

### **Food, Nutrition, and Dietetics Concentration Courses:**

**From:**

HEC 3240. Quantity Food Production. Lec. 2. Lab. 4. Credit 4.

Prerequisite: HEC 2240 or permission of instructor, three semester hours of math.

**To:**

HEC 3240. Quantity Food Production. Lec. 2. Lab. 4. Credit 4.

Prerequisites: HEC 2240, three credit hours of math.

**From:**

HEC 4110. Experimental Food Sciences. Lec. 2. Lab. 4. Credit 4.

Prerequisites: HEC 2240, CHEM 1210, and MATH 1530. Principles and practices in foods research.

**To:**

HEC 4110. Experimental Food Sciences. Lec. 2. Lab. 4. Credit 4.

Prerequisites: HEC 2240, CHEM 1210 or 1010 & 1020, and MATH 1530. Principles and practices in foods research.

**From:**

HEC 4220 (5220). Research in Food Science and Nutrition. Credit 2.

Prerequisite: Junior or senior standing and consent of instructor.

**To:**

HEC 4220 (5220). Research in Food Science and Nutrition. Credit 2.

Prerequisite: Departmental approval.

**Housing and Design Concentration Courses:****From:**

HEC 2411. Practicum: Housing and Design. Credit 1.

Prerequisite: Must be Human Ecology/HEHO major, HEC 2041; consent of instructor.

**To:**

HEC 2411. Practicum: Housing and Design. Credit 1.

Prerequisite: Departmental approval.

**From:**

HEC 2440. Computer Aided Design of Residences. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 2421 or consent of instructor.

**To:**

HEC 2440. Computer Aided Design of Residences. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 2421

**From:**

HEC 4450. Commercial Design. Lec. 2. Lab. 2. Credit 3.

Prerequisites: Three credits in Math, Speech 2410, and HEC 2440, Grade of C or better in HEC 3431 or consent of instructor.

**To:**

HEC 4450. Commercial Design. Lec. 2. Lab. 2. Credit 3.

Prerequisites: Three credits hours of math, Speech 2410, HEC 2440, Grade of C or better in HEC 3431.

**Merchandising and Design Concentration Courses****From:**

HEC 1300. Clothing Construction. Lec. 1. Lab. 4. Credit 3.

Prerequisite: Human Ecology Major or consent of instructor.

**To:**

HEC 1300. Clothing Construction. Lec. 1. Lab. 4. Credit 3.

Prerequisite: Human Ecology major or Fine Art major–Fiber Arts concentration.

**From:**

HEC 2300. Tailoring. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 1300 or consent of instructor.

**To:**

HEC 2300. Tailoring. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 1300 or Fine Art major-Fiber Arts concentration.

**From:**

HEC 2311. Practicum: Merchandising and Design. Credit 1.

Prerequisite: Must be Human Ecology/HEME major; HEC 2031; and consent of instructor.

**To:**

HEC 2311. Practicum: Merchandising and Design. Credit 1.

Prerequisite: Departmental approval.

**From:**

HEC 3300. Apparel Design. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 1300 or permission of the instructor.

**To:**

HEC 3300. Apparel Design. Lec. 1. Lab. 4. Credit 3.

Prerequisite: HEC 1300 or Fine Arts major-Fiber Arts concentration.

**From:**

HEC 3350. Merchandising I. Lec. 3. Credit 3.

Prerequisites: HEC 2031 or permission of instructor.

**To:**

HEC 3350. Merchandising I. Lec. 3. Credit 3.

Prerequisite: HEC 2031.

**From:**

HEC 4310. Merchandise Presentation Techniques. Credit 1.

Prerequisite: HEC 2031, HEC 3350, or permission of instructor.

**To:**

HEC 4310. Merchandise Presentation Techniques. Credit 1.

Prerequisites: HEC 2031, HEC 3350.

**From:**

HEC 4360. Merchandising II. Lec. 3. Credit 3.

Prerequisites: HEC 3350, MATH 1010, or permission of instructor.

**To:**

HEC 4360. Merchandising II. Lec. 3. Credit 3.

Prerequisites: HEC 3350, MATH 1010.

Motion. Dr. Bailey moved to approve the changes effective Spring 2010. The motion was seconded by Dr. Robinson and carried.

Approval of Curriculum Changes from the School of Human Ecology

In a memorandum dated August 20, 2009, approval was requested for the following:

Program: Human Ecology Major: Child Development and Family Relations Concentration

Course Additions:

EXPW 2150 Human Sexuality      Lec. 3, Cr. 3

Course/Program Changes

From:

HEC 4990 Internship      8 cr. hours

To:

HEC 4990 Internship      6 cr. hours

From:

Electives      8-9 cr. hrs.

To:

Electives      7-8 cr. hrs.

Motion. Dr. Bailey moved to approve the changes effective Spring 2010. The motion was seconded by Dr. Elsayy and carried.

Approval of Child Development and Family Relations Concentration-Child Life Option from the School of Human Ecology

In a memorandum dated October 14, 2009, approval was requested for the following:

**Effective: August 2010**

**Program: Human Ecology Major:**

**Child Development and Family Relations Concentration – Child Life Option**

Freshman

HEC 1000	Intro to the Profession	1
HEC 1010	Life Span Development	3
HEC 1020	Social Intelligence	1
HEC 1030	Introduction to Nutrition or HEC 2020 Nutrition	2 or 3
CHEM 1210	Chemistry for the Life Sciences	4
ENGL 1010, ENGL 1020		6
Humanities/Fine Arts		3
Math		3
SOC 1010 Intro to Sociology		3
Total Freshman Hou rs		29/30

Sophomore

HEC 2031	Aspects of Dress	3
HEC 2041	Aspects of Housing	3
HEC 2060	Family System	2
HEC 2200	Dev of Young Children	3
HEC 2500	Creative Play	

		2
BIOL 2010, 2020	Human Anatomy & Phys I and II	8
ENGL 2130, 2230, or 2330		3
PSY 2010	General Psychology	3
HIST 2010, 2020		6
Total Sophomore Hours		33

Junior

HEC 3000	Consumer Economics	2
HEC 3500	Development: Middle/Adolescence	3
HEC 4210	Medical Terminology for the Human Sciences	1
BIOL 3230	Health Science Microbiology	4
Art 1030 or MUS 1030		3
CFS 3600	Family, Community, and Professional Partnerships	2
CFS (ECSP) 2400	Children with Special Needs	3
CFS (ECSP) 2410	Practicum: Children with Special Needs	1
EXPW 2150	Human Sexuality	3
EXPW 2430	First Aid, Safety, CPR	2
SPCH 2410 or PC 2500		3

Directed Electives*		3
---------------------	--	---

Total Junior Hours		30
--------------------	--	----

Senior

HEC 4000	Professional Integration	1
HEC 4600	Family Development & Relationships	3
HEC 4610	Families: Normative/Catastrophic Issues	3
HEC 4990	Internship	6
HEC 3700	Development Young Adult/Aging	3
ECSP 4300	Assessment of Children	3
PSY 4160	Abnormal Psychology	3
Directed Electives*		5 or 6
Total Senior Hours		27-28

\* Suggested courses (but not limited to) for Directed Electives

BIOL 3700	Humanism in Medicine	3
HEC 3270	Nutrition in Disease	3
MUST 2110	Introduction to Music Therapy	3
NURS 3450	Personal Wellness Management	3
NURS 4370	Preparation for Parenting	3
PSY 2050	Psychology of Adjustment	3
PSY 3410	Group Dynamics	3
PSY 4130	Physiological Psychology	3
PSY 4320	Introduction to Therapeutic Techniques	3
PSY 4400	Psychopharmacology	3
SOC 4120	Sociology of Death and Dying	3
SOC 4830	Medical Sociology	3

The Child Life program, a gateway to the Certified Child Life Specialist (CCLS) credential, is coordinated with the Child Life Council's professional, programmatic and educational needs of the child life practitioner.

Application to the Child Life program at TTU is required and should be made in the first semester of the junior year.

There are three components of eligibility to sit for the certification examination.

1. Baccalaureate Degree
2. Course Work including a minimum of 10 college-level courses in child life or a related department/subject
3. Clinical Child Life Experience (480 hours under the direct supervision of a CCLS in good standing)

Motion. Dr. Bailey moved to approve the Option effective August 2010 contingent upon funding. The motion was seconded by Dr. Talbert and carried.

### **Approval of Course and Curriculum Changes from the Department of Earth Sciences**

In a memorandum dated September 3, 2009, approval was requested for the following:

#### Course Changes:

**FROM:** GEOL 3120. Mineralogy. Lec. 2. Lab. 4. Credit 4.

Prerequisites: GEOL 3110 and MATH 1720. Geometrical crystallography; determination of silicate and non-silicate minerals by physical properties, chemical tests, and X-ray diffraction.

**TO:** GEOL 3120. Mineralogy. Lec. 2. Lab. 4. Credit 4.

Prerequisites: GEOL 3110, MATH 1720, and CHEM 1120. Geometrical crystallography; determination of silicate and non-silicate minerals by physical properties, chemical tests, and X-ray diffraction.

**FROM:** GEOL 2010. Topical Minicourse in Geology. Credit 1.

Independent study including library and outdoor projects. No formal classwork is required. ~~May be repeated.~~

**TO:** GEOL 2010. Topical Minicourse in Geology. Credit 1.

Independent study including library and outdoor projects. No formal classwork is required. ~~Not intended for geosciences majors. May be repeated.~~

**FROM:** GEOL 1310. Concepts of Geology. Lec. 2. Lab. 3. Credit 3.

Introduction to the earth sciences: maps, weather and climate, minerals and rocks, water, geologic processes, time, and earth's history. This course will not count as part of a geology sequence.



**TO:** GEOL 1310. Concepts of Geology. Lec. 2. Lab. 3. Credit 3.  
 Introduction to the earth sciences: minerals and rocks, resources, geologic processes, water, earthquakes, maps, folds and faults, geologic time, continental drift, weather, and climate. This course will not count as part of a geology sequence.

CURRICULUM CHANGES—correction to the number of hours for Directed Electives in Junior/Senior years.

**FROM: GEOSCIENCES (EGEO)**

(Leading to the Bachelor of Science Degree with a concentration in Environmental Geology)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
GEOL 1020 <sup>1</sup>	1	GEOL 2500	3
GEOL 1040	4	Required Course from Environmental Geology Concentration	3-4
GEOL 1045	4	PHYS 2010, 2020 or BIOL 1020, 3130	8
ENGL 1010	3	MATH 3070	3
ENGL 1020	3	Humanities and/or Fine Arts	6
CHEM 1110	4	ENGL 2130, 2230 or 2330	3
CHEM 1120	4	GEOG 4510	3
HIST 2010	3	Total	29-30
HIST 2020	3		
MATH <sup>2</sup>	3-5		
Total	32-34		
<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
Social/Behavioral Science Electives	6	GEOL 4930, 4931	6
SPCH 2410	3	Required Course from Environmental Geology Concentration	3-4

Required courses from Environmental Geology concentration	13-15	Directed Electives from Environmental Geology Concentration	3
Directed Electives from Environmental Geology Concentration	3-4	Free Electives	13-17
MATH or Free Elective <sup>3</sup>	3		
Total	28-31	Total	25-30

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

<sup>2</sup> MATH 1130, 1730, or 1910

<sup>3</sup> If MATH 1130 was taken then take MATH 1720; otherwise take a free elective.

**Environmental Geology Concentration--Required Courses (21 hours)**

GEOL 3200	Water Resources	3
GEOL 4100	Environmental Sedimentology	4
GEOL 4150	Geomorphology	4
GEOL 4410	Remote Sensing	3
GEOG 4650	Environmental Applications of GIS	3
GEOL 4711	Hydrogeology	4

**Environmental Geology Concentration--Directed Electives, any three of the following nine courses, (9 hours)**

GEOG 1010	Weather and Climate	3
GEOL 2000	Earth Evolution and Life History	3
AGRN 2210	Soils	3
AGET 3510	Agricultural Surveying	3
CHEM 3710	Chemistry and the Environment	3
AGRN 4230	Soil Classification	
BIOL 4240	Systematic Botany	3
BIOL 4740	Pollution Microbiology	3
WFS 4500	National Wildlife Policy	3

TO: GEOSCIENCES (EGEO)

(Leading to the Bachelor of Science Degree with a concentration in Environmental Geology)

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
GEOL 1020 <sup>1</sup>	1	GEOL 2500	3
GEOL 1040	4	Required Course from Environmental Geology Concentration	3-4
GEOL 1045	4	PHYS 2010, 2020 or BIOL 1020, 3130	8
ENGL 1010	3	MATH 3070	3
ENGL 1020	3	Humanities and/or Fine Arts	6
CHEM 1110	4	ENGL 2130, 2230 or 2330	3
CHEM 1120	4	GEOG 4510	3
HIST 2010	3	Total	29-30
HIST 2020	3		
MATH <sup>2</sup>	3-5		
Total	32-34		
<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
Social/Behavioral Science Electives	6	GEOL 4930, 4931	6
SPCH 2410	3	Required Course from Environmental Geology Concentration	3-4
Required courses from Environmental Geology concentration	13-15	Directed Electives from Environmental Geology Concentration	3
Directed Electives from Environmental Geology Concentration	6	Free Electives	13-17
MATH or Free Elective <sup>3</sup>	3		

<b>Total</b>	31-33	<b>Total</b>	25-30
--------------	-------	--------------	-------

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

<sup>2</sup> MATH 1130, 1730, or 1910

<sup>3</sup> If MATH 1130 was taken then take MATH 1720; otherwise take a free elective.

**Environmental Geology Concentration--Required Courses (21 hours)**

GEOL 3200	Water Resources	3
GEOL 4100	Environmental Sedimentology	4
GEOL 4150	Geomorphology	4
GEOL 4410	Remote Sensing	3
GEOG 4650	Environmental Applications of GIS	3
GEOL 4711	Hydrogeology	4

Environmental Geology Concentration--Directed Electives, any three of the following nine courses, (9 hours)

GEOG 1010	Weather and Climate	3
GEOL 2000	Earth Evolution and Life History	3
AGRN 2210	Soils	3
AGET 3510	Agricultural Surveying	3
CHEM 3710	Chemistry and the Environment	3
AGRN 4230	Soil Classification	3
BIOL 4240	Systematic Botany	3
BIOL 4740	Pollution Microbiology	3
WFS 4500	National Wildlife Policy	3

Motion. Dr. Harrison requested to remove the "May be repeated" statement from the GEOL 2010 change and moved to approve the changes effective immediately. The motion was seconded by Dr. Stein and carried.

There was discussion regarding the use of GEOL 2010 as a one hour filler for an 8 hour general education science requirement.

A statement from the TTU General Education Committee (Spring 2005) was retrieved which deals with an exception to the 8 hour general education science requirement for transfer students. A request was made to include this memo in the minutes. (See Below)

---

**General Education  
Science Requirement for Transfer Students**

The TTU General Education Committee expects students transferring from other TBR schools to have met the general education science requirement (8 hours of laboratory science) or to meet it after starting at TTU.

In special cases, however, where the student has fulfilled general education science requirements at another institution *outside the TBR*, we would honor a 7-hour experience and partial completion of our laboratory requirement, so long as the completed lab experience is judged to have been significant.

Teacher Education will have the opportunity to sign off and make recommendations on all their students' requests regarding the science requirement.

Policy rev. May 05

---

A vote as taken on the motion and the motion carried.

#### **Approval of Course Addition from the Department of Foreign Languages**

In a memorandum dated October 15, 2009, approval was requested for the following:

##### Course Addition:

FLCS 3000 Global Studies Lec. 3, Cr. 3

Prerequisite: Junior standing

Global topics will be examined from the perspective of current research in Germanic, Hispanic, and Francophone Studies, and from a variety of other disciplines, highlighting connections between the larger class topic, the international community, and the local community. Topics will change.

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

#### **Approval of Course Addition from the Department of Manufacturing & Industrial Technology**

In a memorandum dated October 13, 2009, approval was requested for the following:

##### Course Addition:

MIT 2400 Statics and Strength of Materials Lec. 2, Lab. 2, Cr. 3

Prerequisite: MATH 1910 and PHYS 2010. This course is an introduction to concurrent force analyses, stresses, strains and combined stresses in structures and machines components.

Motion. Dr. Elsayy moved to approve the addition effective Spring 2010. The motion was seconded by Dr. Elizandro and carried.

### **Approval of Course Change from the Department of Basic Engineering**

In a memorandum dated October 12, 2009, approval was requested for the following:

#### Course Change:

From:

ENGR 3951, 3952, 3953 Special Topics for Non-Engineers Cr. 1, 2, 3. Maximum 6.

Prerequisite: ~~Consent of instructor.~~ Timely topics in engineering and technology--the relationships to other professions. This course may not be used to earn credit toward an engineering degree.

To:

ENGR 3951, 3952, 3953 Special Topics for Non-Engineers Cr. 1, 2, 3. Maximum 6.

Prerequisite: Department Approval. Timely topics in engineering and technology--the relationships to other professions. This course may not be used to earn credit toward an engineering degree.

Motion. Dr. Elizandro moved to approve the change effective Fall 2010. The motion was seconded by Dr. Elsayy and carried.

### **Approval of Course Addition from the Department of Electrical and Computer Engineering**

In a memorandum dated October 9, 2009, approval was requested for the following:

#### Course Addition:

ECE 3270 Programmable Logic Controller Laboratory Lab. 3, Cr. 1

Prerequisite: ECE 2020, ECE 2060 and ECE 2110. Introduction to Ladder Logic Programming, Relays, PLC in Automation & Control, Safety, Hardware Troubleshooting, Hands-on laboratory experiments and projects.

Motion. Dr. Hoy moved to approve the course addition effective Fall 2010. The motion was seconded by Dr. Talbert and carried.

### **Approval of Course and Curriculum Changes from the Department of Mechanical Engineering**

In a memorandum dated October 24, 2009, approval was requested for the following:

#### Course Change:

From:

ME 2001 Elementary Mechanical Engineering Analysis Lec. 2, Cr. 2

Prerequisites: ENGR 1120, MATH 1910. An introduction to mechanical engineering analysis through the study of numerical methods and matrix algebra and the use of modern numerical computing tools for problem solving.

To:

ME 2001 Elementary Mechanical Engineering Analysis Lec. 1, Lab. 2, Cr. 2

Prerequisites: ENGR 1120, MATH 1910. An introduction to mechanical engineering analysis through the study of numerical methods and matrix algebra and the use of modern numerical computing tools for problem solving.

Motion. Dr. Hoy moved to approve the change effective Fall 2010. The motion was seconded by Dr. Elizandro and carried.

#### Curriculum Change:

**MECHANICAL ENGINEERING (ME)**

**(Leading to the Bachelor of Science in Mechanical Engineering Degree)**

<b>Freshman Year</b>	sem. hrs.	<b>Sophomore Year</b>	sem. hrs.
ENGL 1010, 1020	6	ENGL 2130, 2230 or 2330	3
MATH 1910, 1920	8	ME <del>2000</del> 2001	2 3
CHEM 1110, 1120	8	MATH 2110	4
ENGR 1020	1	MATH 2120	3
ENGR 1110	2	CEE 2110	3
ENGR 1120	2	ME 2330	3
Humanities/Fine Arts Electives	6	PHYS 2110	3
		CEE 3110	3
		SPCH 2410 or PC 2500	3
		ECE 3810	3
		ECE 3860	1
<b>Total</b>	<b>33</b>	<b>Total</b>	<b>31 32</b>
<b>Junior Year</b>	sem. hrs.	<b>Senior Year</b>	sem. hrs.
ME 3210	3	Social/Behavioral Science Elective	6
ME 3220	3	ME 4750	2
ME 3720	3	ISE 3110	2
ME 3710	3	ME 4020	3
ME 3610	3	ME 4720	3
ME 4010	3	ME 4444	4
ME 3010	3	ME area of concentration	12
MATH 4510	3		
ME 3050	3		
ME 3060	1		
ME 3022, ME 3032 ME 3023	3 1,1		
ME 3910	1		
<b>Total</b>	<b>32 34</b>	<b>Total</b>	<b>32</b>

Motion. Dr. Hoy moved to approve the changes effective Fall 2010. The motion was seconded by Dr. Elsayy and carried.

**Other Such Matters**

Dr. Armistead alerted the committee that issues have been raised concerning the plagiarism software tool Turnitin, which was approved by the Graduate School Executive Committee for use in graduate courses. Questions have been raised as to whether this can legally be used for undergraduate courses, as it has not been approved by the Academic Council for undergraduate use.

Dr. Armistead suggested that department chairs may want to discuss this amongst themselves as this issue will be brought to the November Academic Council meeting.

The meeting adjourned at 3:55.

---

This page maintained by [Lorrie McCracken](#)  
Last updated: December 22, 2009

 [Go to TTU Home Page](#)