Academic Council Minutes
March 26, 2014
Midwestern State University

The Academic Council did not meet on March 26, 2014. The agenda was distributed to members of the Council. A majority of the voting members voted electronically to adopt the following course and catalog changes.

Voting members:

Dr. Matthew Capps, Dean, Gordon T. & Ellen West College of Education
Dr. Laura Fidelie, Faculty Senate Vice-Chair
Dr. Deborah Garrison, Associate Vice President for Academic Affairs and Dean of the Graduate School
Dr. James Johnston, Dean, Robert D. & Carol Gunn College of Health Sciences and Human Services
Dr. Lynn Little, Dean, College of Science and Mathematics
Dr. Kris Tilker, Chair,Management, Marketing and Legal Studies Department, substituting for Dr. Patton, Dean, Dillard College of Business Administration
Ms. Leona Sandiford, Student Government Association Vice President
Dr. Jim Sernoe, Interim Dean, Lamar D. Fain College of Fine Arts
Dr. Sam Watson, Dean, Prothro-Yeager College of Humanities and Social Sciences

Non-voting members

Ms. Naoma Clark, Director, Academic Support Center
Ms. Reagan Foster, Staff Senate Representative
Ms. Darla Inglish, Registrar
Ms. Linda Knox, Assistant Registrar
Dr. Clara Latham, University Librarian
Ms. Julian Lehman-Felts, Coordinator, Honors Program
Mr. Matthew Park, Associate Vice President for Student Affairs and Dean of Students
Ms. Leah Vineyard, Interim Director of Admissions
Dr. Larry Williams, Director, International Programs

1. Honors Program

Undergraduate Course and Catalog Changes

New Course Addition, effective Fall 2014

MWSU 4453. Honors Senior Seminar
Prerequisites: Senior classification and consent of instructor.
Description: An interdisciplinary seminar designed for Honors students who have completed a research topic and/or methods course. Students will present their completed projects formally and engage in intensive discussions.
Seminar 3(3-0)
Course Objectives and/or additional information:
This is a credit/non-credit course that will meet once a week over 2 full semesters. Students will enroll in the course in the Fall semester and receive a grade of Incomplete at the end of the term. They will

continue the class over the Spring semester and will be awarded a grade of CR or NC at the end of the Spring semester based on course performance.

Note: due to a revision (4/25/14) of the course, MWSU 4451. Honors Senior Seminar, and MWSU 4452. Honors Senior Seminar, will replace MWSU 4453. Honors Senior Seminar. (no vote required)

2. Dillard College of Business Administration

Undergraduate Course Changes

Change of Course Prerequisite, effective Fall 2014

ACCT 4063. Auditing
Prerequisites: ACCT ~~3033~~ **3043** or concurrent enrollment

New Course Additions

MGMT 3333. Teams and Teamwork (effective Summer II 2014)
Prerequisites: Junior standing or above or consent of the chair
Description: This course will explore different dynamics and relationships among individuals in the work environment. The course will start with focusing on a focal employee and how he/she relates to others in the work environment. Then, the course will incorporate team components that will lead to, and detract from, effective team work.
Lecture 3(3-0)
Course Objectives and/or additional information:
Upon completion of the course, students will understand and use constructive group behaviors, lead a diverse group through a discussion of two separate topics, and gain a greater understanding of group dynamics from each different strategic perspective involved.

MGMT 3353. International Management (effective Summer I, 2014)
Prerequisites: Junior standing or above or consent of the chair
Description: This course focuses on the challenges and opportunities associated with organizational management and business strategy in the global environment. Students will gain an introduction to the theories, concepts and skills relevant to managing effectively in today's global environment. Through a combination of lectures, presentations, experiential exercises, case studies and class participation, we will explore the domain of International Management and doing business in a globalized world.
Lecture 3(3-0)
Course Objectives and/or additional information:
This course helps students learn the tools and vocabulary necessary for critical and effective management analysis, thinking, and communication across national borders.

Undergraduate Catalog Changes

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All candidates for a Bachelor of Business Administration (B.B.A.) degree must complete a program of at least 120 hours ~~including exercise physiology requirements, if applicable~~. Candidates must satisfy all general requirements for a bachelor's degree (see page 89) as well as requirements listed below.

BUSINESS CORE

To matriculate in the upper division business curriculum, students must have completed all nine (27 semester hours) of the business core courses listed below (with an overall GPA of 2.2) and have completed an additional ~~21~~ **15** hours in the university core.

BUAD 1033 Foundations of Business[1]
ENGL/SPCH 1103 Introduction to Communication
~~ENGL 1113 Rhetoric and Composition~~
ENGL 1123 Rhetoric and Composition
MATH 1203 Mathematical Analysis for Business OR MATH 1233 College Algebra
ACCT 2143 Financial Accounting

ACCT 2243 Managerial Accounting
MIS 2003 Information Technology Concepts for Business
ECON 2333 Macroeconomics[1]
ECON 2433 Microeconomics

[1] Business majors must take ~~this~~ **these** option**s** in the Academic Foundations **and Core Curriculum**.

PROFESSIONAL WRITING
In addition to the university core, an additional requirement for all business majors includes ENGL 2223, Professional Writing for Business.

PROFESSIONAL BUSINESS CORE
After satisfying the business core requirements discussed above, students pursuing the B.B.A. degree may begin taking upper-level business courses including those listed in the Professional Business Core. To receive the B.B.A. degree in most business programs, students must successfully complete all nine (27 semester hours) of the Professional Business Core courses listed below.

MGMT 3013Organizational Behavior in Business
BUAD 3033 Business and Economic Statistics
MIS 3003 Management Information Systems
~~BUAD 3323 Business Ethics~~
3 hours International Component. International Component courses include BUAD 4993, ECON 4643, ECON 4723, MGMT 3353, MKTG 4643, POLS 4333, 4653.
LSBA 3233 Legal **and Ethical** Environment of Business
MGMT 3453Operations Management
MKTG 3723 Principles of Marketing
FINC 3733 Business Finance
MGMT 4853 Strategic Management

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Students may apply for internships with businesses representing a wide array of industries. Students work with a practitioner in a firm in which they have been accepted. A faculty sponsor, the professional in the firm, and the student collaborate on goals so that the internship will integrate theory with the experiences of the real world. Upon the satisfactory completion of an internship, students receive three hours of college credit. ~~Most of the internships are paid so that students earn while they learn.~~

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ACCOUNTING and MANAGEMENT
INFORMATION SYSTEMS

Ralph Fritzsch, Chair (Dillard College of Business Administration Building 287)
Professor: Fritzsch
Associate Professors: Gaharan, Johnston, Patton, Thomas
Assistant Professors: G. Zhang, J. Zhang
Instructors: ~~Raulston,~~ Vowell**, Wang**
Professors Emeriti: Bauer, C. Harris, T. Harris, Madera, McInturff

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~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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4063. Auditing 3(3-0)
Prerequisite: ~~ACCT 3033~~ **ACCT 3043 or concurrent enrollment**.

Theory, practice, and procedure of auditing; internal accounting control; auditing standards and principles; working papers and reports.

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~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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ECONOMICS, FINANCE, and GENERAL BUSINESS

Yoshi Fukasawa, Chair (Dillard College of Business Administration Building 209)
Professors: Fukasawa, ~~Harmel,~~ Martinez~~, Patin, Tilker~~
Associate Professors: Lei, Li
Assistant Professors: Gelves, Owen
Professors Emeriti: Krienke, Rodriguez, Van Geem

~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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FINANCE

Courses for a Major in Finance: (30 semester hours)
FINC 3353, 4653 **(if not taken in the Professional Business Core)**, 4733, FINC 4753 or 4833, ECON 3543, 4643, plus twelve semester hours (four courses) selected from ECON 3323, 3333, 3703, 3743, FINC 3413, 3633, 3753, 4663, 4753 or 4833 (whichever course not taken above), 4893, and advanced accounting (limit six semester hours).

~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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Courses for Major in General Business (30 semester hours)
Selection of one course from each of the following lists:
ACCT 3003, 3023, 3033, 3043, 3073, 3203, 3633, 4063
ECON 3323, 3333, 3543, 3703
FINC 3353, 4653, 4733
MGMT 3783, 4033, 4113, 4213, 4513, 4613
MIS 3113, 3123, 3133, 3163, 3203, ~~3303,~~ 4153
MKTG 3763, 3823, 4143, 4203, 4643, 4723, 4743, 4753
Plus LSBA 3243
And any three 3000-4000 level courses from the Dillard College.

~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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3233. Legal **and Ethical** Environment of Business 3(3-0)

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MANAGEMENT, MARKETING, and LEGAL STUDIES
Kris Tilker ~~Chris Shao~~, Chair (Dillard College of Business Administration Building ~~272~~ **222**)
Professors: Dubinsky, Patterson**, Shao, Tilker**
Associate Professors: Bultena, ~~Shao,~~ Wilson
Assistant Professors: **Kataria,** Martin, Stambaugh
Executive in Residence – Management: Forrester
Professors Emeriti: Boutwell, Harvey, McCullough,
McWhorter, Moeller, Ramser, Rountree

Courses for Major in Management: (27 semester hours)
MGMT 3783, 4033, 4113, 4213, and 4613; plus twelve hours from the following:
MGMT **3333, 3353,** 4413, 4513, 4663, 4783, 4793, 4893, LSBA 3243, BUAD 4993, ECON 3703 or 4643 ~~,~~ ~~MIS 3163, or one from MKTG 3763, 4303, 4643, or 4723~~.

~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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3333. Teams and Teamwork **3(3-0)**
Prerequisite: Junior standing or above or consent of the chair.
This course will explore different dynamics and relationships among individuals in the work environment. The course will start with focusing on a focal employee and how he/she relates to others in the work environment. Then, the course will incorporate team components that will lead to, and detract from, effective team work.

3353. International Management **3(3-0)**
Prerequisites: Junior standing or above or consent of the chair.
The course focuses on the challenges and opportunities associated with organizational management and business strategy in the global environment. Students will gain an introduction to the theories, concepts and skills relevant to managing effectively in today's global environment. Through a combination of lectures, presentations, experiential exercises, case studies and class participation, we will explore the domain of International Management and doing business in a globalized world.

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Courses for Major in Marketing (27 semester hours)
MKTG 3763, 3823, 4143, 4643 **(if not taken in the Professional Business Core)**, 4753; ~~two~~ **three** of the following courses (one of which must be MKTG 4203 or 4723): MKTG 4203, 4223, 4303, 4663, 4723, 4743, 4893, MGMT 3783, or MIS 3203; three hours from any advanced course from the Dillard College of Business Administration; and three hours from any advanced course in any other college.

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~~Approved electives to bring total to 120 semester hours including exercise physiology requirements, if applicable.~~ **Electives approved by student's advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.**

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~~The Center for Management and Leadership Development~~
~~Jim Lundy, Ph.D.~~

~~DirectorThe Center for Management and Leadership Development is committed to guiding managers and leaders at all levels of responsibility to respect, involve, and guide their associates to embrace the progressive pursuit of individual responsibility and accountability. The challenges of leadership and teamwork exist in all groups – for profit, not-for-profit, governmental or private. Through consultations, workshops, lectures, and other services, the Center for Management and Leadership Development strives to enhance the abilities of individuals and groups to provide their customers, clients, and constituents with outstanding~~

~~leadership and management competencies.~~

BRIDWELL DISTINGUISHED
PROFESSORSHIP OF FINANCE

~~Dr. Roy P. Patin, Jr., the Bridwell Distinguished Professor of Finance, came to Midwestern State University in 1992 from McNeese State University. Dr. Patin has written numerous articles and has served as a finance consultant. He has work experience with Exxon Oil Company and Dow Chemical Company. He has held administrative positions in higher education and has taught at McNeese State University, Clemson University, and Mississippi State University.~~

3. Gordon T. and Ellen West College of Education – Dr. Capps

Education Undergraduate Course Changes, effective Fall 2014

Change of Course Title and Course Description

EDBE 4333~~. Assessment in Bilingual Education~~ **Bilingual Methods and Assessment**
Description: **Curriculum, methods, materials, and assessment for bilingual education including instructional techniques, materials, evaluations, classroom management, and methods of assessing oral and written language.**

Change of Course Prerequisite

EDUC 3162. Classroom Management
Prerequisite: EDUC 2013 and COUN 2143; Admission to the teacher education program
2(1-2)

New Course Addition

4033. Teaching Social Studies in Elementary School
Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613; Concurrent enrollment in EDUC 4043, 4053, ETEC 4003
Lecture, Field Experience 3(2-2)

EDUC 4043. Teaching Math in Elementary School
Prerequisite: Admission to the teacher education program
Lecture/Practicum 3(2-2)

EDUC 4053. Teaching Science in the Elementary School
Prerequisite: Admission to the teacher education program
Lecture/Practicum 3(2-2)

Change of Course Prefix

~~EDUC~~ 3153. **EPSY 3153**. Educational Psychology

Change of Course Number, Course Prefix, Course Title, and Course Description

~~EDUC 1023. Computer Applications in Education~~
ETEC 4003. Advanced Technology Integration
Prerequisites: none
Description: This course prepares undergraduate students to use suites of digital media and communication tools that support the development of technological pedagogical content knowledge. Students will develop learning experiences that incorporate new technologies that are developed in collaboration with method courses instructors, or other instructors.

New Course Addition

EDBE 4203. Implementation of EC-6 Dual Language Curriculum Models
Description: This course addresses programmatic, cultural, academic and linguistic considerations for the creation, implementation and maintenance of dual language curriculum models in EC-6 settings. In the course students will explore and implement

various research-based teaching methods and strategies used in effective programs. It will also cover key components of dual language teaching and learning, including curriculum alignment (e.g., horizontal, vertical, spiral), language separation, and parent collaboration.
Course Objectives and/or additional information:

- **Students will be able to understand the characteristics and goals of the dual language one way and two way program models.**
- **Students will explore and implement various research-based teaching methods and strategies used in effective dual language programs.**
- **Students will be able to create and l design lesson plans based on appropriate dual language instructional materials and strategies.**
- **Students will learn the components of curriculum alignment (e.g., horizontal, vertical, spiral) in dual language programs.**
- **Students will learn about the various methods of language separation in dual language program models.**
- **Students will learn how to apply strategies to bridge the home and school cultural environments, and the significance of parent collaboration in dual language programs.**

EDUC 3163. Classroom Management
Prerequisites: EDUC 2013 and COUN 2143
Description: The management of the classroom to optimize student learning. The development of such management skills as active listening, reality therapy, and conflict resolution.
Lecture/Field Experience 3(2-2)
Course Objectives and/or additional information:
Reactivating from previous year

EDUC 3183. Classroom Assessment
Description: This course introduces students to the competencies needed to construct reliable and valid objective classroom assessments. In addition, students will be introduced to formats and options for authentic assessments and the role of technology in designing and analyzing data from various types of assessments. Finally, students will become familiar with the utilization of reliable and valid data obtained from assessments to guide instructional decisions for all students, collectively or individually, in the classroom.
Lecture 3(3-0)
Course Objectives and/or additional information:

- **Students will be introduced to and become familiar with strategies that assure alignment of content objectives and appropriate assessment options in the classroom.**
- **Students will be introduced to and become familiar with competencies needed to develop various lower-order thinking and higher-order thinking objective items included on standardized tests for all students included (but not limited to): true/false, fill-in-the-blank, matching, multiple choice, short answer and essay items.**
- **Students will be introduced to and become familiar with authentic assessment options including (but not limited to): project-based learning, portfolios and self-assessments through the use of rubrics, checklists, and other forms of assessment.**
- **Students will be introduced to and become familiar with the use of technology to create assessments that can be objective or authentic in nature.**
- **Students will be introduced to and become familiar with the analysis of data obtained from reliable and valid assessments conducted in their classrooms, from research, or from standardized formats in order to make data-driven decisions in their classrooms.**

EDUC 4063. Teaching Methods in Social Studies (Middle & High School)
Prerequisites: EPSY 3153 and SPED 3613. Admission to the Teacher Education Program.
Description: This field-based, 3-credit course focuses on middle and secondary school social studies pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design.

Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.
Lecture/Field Experience 3(2-2)
Course Objectives and/or additional information:

- **Learners are able to describe learning and thinking in middle and high school social studies.**
- **Learners will be able to develop curriculum and use effective instructional planning skills.**
- **Learners will be able to develop appropriate assessment tools to assess students learning.**
- **Learners will be able to use assessment data to design appropriate learning activities.**
- **Learners will be able to develop lesson plans that involve students in an active learning environment.**
- **Learners will be able to develop and implement effective teaching strategies.**
- **Learners will be able to develop lesson plans/units that incorporate national standards in social studies, and technology applications.**
- **Learners will be able to develop lesson plans/units that incorporate state standards in social studies and technology applications.**
- **Learners will be able to develop and implement learning environments that utilize various teaching/learning strategies.**
- **Learners will be able to develop learning activities that involve the infusion of technology.**

EDUC 4073. Teaching Methods in Mathematics (Middle & High School)
Prerequisites: EPSY 3153 and SPED 3613. Admission to the Teacher Education Program.
Description: This field-based, 3-credit course focuses on middle and secondary school math pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design. Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.
Lecture/Practicum 3(2-2)
Course Objectives and/or additional information:

- **Learners are able to describe learning and thinking in middle and high school mathematics.**
- **Learners will be able to develop curriculum and use effective instructional planning skills.**
- **Learners will be able to develop appropriate assessment tools to assess students learning.**
- **Learners will be able to use assessment data to design appropriate learning activities.**
- **Learners will be able to develop lesson plans that involve students in an active learning environment.**
- **Learners will be able to develop and implement effective teaching strategies.**
- **Learners will be able to develop lesson plans/units that incorporate state and national standards in mathematics and technology applications.**
- **Learners will be able to develop and implement learning environments that utilize various teaching/learning strategies.**
- **Learners will be able to develop learning activities that involve the infusion of technology.**

EDUC 4083. Teaching Methods in Science (Middle & High School)
Prerequisites: EPSY 3153 and SPED 3613. Admission to the Teacher Education Program
Description: This field-based, 3-credit course focuses on middle and secondary school science pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design. Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.
Lecture/Field Experience 3(2-2)
Course Objectives and/or additional information:

- **Learners are able to describe learning and thinking in middle and high school science.**
- **Learners will be able to develop curriculum and use effective instructional planning skills.**
- **Learners will be able to develop appropriate assessment tools to assess students learning.**
- **Learners will be able to use assessment data to design appropriate learning activities.**

- **Learners will be able to develop lesson plans that involve students in an active learning environment.**
- **Learners will be able to develop and implement effective teaching strategies.**
- **Learners will be able to develop lesson plans/units that incorporate national and state standards in science and technology (STEAM) applications.**
- **Learners will be able to develop and implement learning environments that utilize various teaching/learning strategies.**
- **Learners will be able to develop learning activities that involve the infusion of technology.**

Counseling and Kinesiology
Undergraduate Course Changes, effective Fall 2014

Change of Course Number and Lecture/Lab Hours
COUN ~~3143~~ **2143** Human Diversity
~~3(2-2)~~ **3(3-0)**

Change of Course Number, Course Title, Course Description, and Lecture/Lab Hours
~~KNES 1213. Concepts of Healthy Living~~
KNES 1214. Health, Fitness & Physical Activity for Children
Description: Examination of factors impacting the health status of children and the development of a healthy, active lifestyle. Laboratory experiences will focus on incorporating elementary games and activities into the classroom, including those associated with physical fitness and personal safety. This course is limited to elementary education majors.
Lecture/Physical Activity ~~3(3-0)~~ **4(3-2)**

Change of Course Description
KNES 1503. Concepts of Fitness and Wellness
Description: Examination of basic concepts and principles for improving and maintaining health and fitness across the lifespan.

KNES 2102. Movement Activities for Children
Description: Instructionally and developmentally appropriate teaching skills and movement activities for children. Application of practical knowledge and skills to integrate a variety of games and activities for children.

Change of Course Number, Course Title, and Course Description
~~KNES 3423. Team Sports~~
KNES 2403. Techniques & Strategies of Team Sports
Description: Introduction to selected team sport skill themes and activities. An emphasis on rules, skills, strategies and progressions.

~~KNES 3433. Individual & Dual Sports~~
KNES 2413. Strategies & Techniques of Individual/Dual Sports
Description: Introduction to selected individual/dual sport skill themes. An emphasis on rules, skills, strategies and progressions.

~~KNES 3103. Fitness and Conditioning Activities~~
KNES 2423. Techniques & Strategies of Fitness and Conditioning Activities
Description: An introduction to lifetime fitness and conditioning activities emphasizing safe, effective and purposeful exercise. Activities include, but are not limited to, weight training, and aerobics. Application of basic concepts and principles for improving and maintaining health and fitness across the lifespan.

Change of Course Number and Course Title
~~KNES 3333. Outdoor Education~~
KNES 2433. Techniques & Strategies of Adventure & Outdoor Activities

Change of Course Prerequisites

KNES 3203. Program Planning in Recreation & Leisure Services
Prerequisites: Junior/Senior standing; KNES 1503, 2423, and 2403 or 2413 or 2433

KNES 3363. Motor Skill Acquisition and Analysis
Prerequisites: Junior/Senior standing; KNES 1503, 2423, and 2403 or 2413 or 2433

KNES 4033. Sport & Exercise Psychology
Prerequisites: Junior/Senior standing.

KNES 4513. Adapted Physical Activity
Prerequisites: Junior/Senior standing; KNES 3513

KNES 4973. Leadership in Recreation & Leisure Services
Prerequisites: SR standing; grade of C or better in KNES 3203, 3513, 3603, 4513; satisfaction of the Writing Proficiency Requirement; approval of instructor and program coordinator.

Change of Course Prerequisites and Course Description

KNES 4663. Fundamentals of Elementary Physical Education
Prerequisites: Junior/Senior standing and KNES 1503, 2423, 2403 o4 2413, and 3603
Description: Examination and application of the instructional concepts and strategies associated with planning and implementing developmentally appropriate games and activities for school-age children.

New Course Additions

KNES 3513. Scientific Foundations of Human Movement
Prerequisites: Junior/Senior standing; KNES 1503, 2423, and 2403 or 2413 or 2433
Description: Basic concepts and principles of anatomical kinesiology, biomechanics, and exercise physiology are introduced and applied to the study of motor skill acquisition and performance.
Lecture 3(3-0)
Course Objectives and/or additional information:

1. **Students will demonstrate general knowledge of anatomical structures and physiological systems that control normal functioning of the human body at rest and in motion.**
2. **Students will demonstrate general knowledge of physiological concepts and principles essential for understanding the dynamics of optimal fitness and performance.**
3. **Students will identify and explain biomechanical concepts and principles essential for understanding the dynamics of bodies and objects in motion.**
4. **Students will identify and apply anatomical and mechanical factors to selected motor patterns and sport skills.**
5. **Students will explore and discuss the use of scientific concepts and principles as an element of best practice in teaching and coaching.**

KNES 3603. Assessment in Physical Education
Prerequisites: Junior/Senior standing; KNES 1503, 2423, and 2403 or 2413 or 2433
Description: Comprehensive examination of the conceptual and theoretical aspects of assessment and evaluation in the field of physical education with an emphasis on developmentally appropriate assessment and program evaluation. Develop knowledge and skills necessary to conduct both process and product evaluations.
Lecture 3(3-0)
Course Objectives and/or additional information:

1. **Identify and select appropriate assessment strategies and tools to assist in determining student learning.**
2. **Plan developmentally appropriate assessment strategies, using developed assessment tools, for students in physical education at the preschool, elementary, junior high school or senior high school levels, including students with special needs.**

3. **Develop an understanding of the principles of test administration and the techniques and recommended practices for administering tests in physical activity settings, including understanding issues of validity, reliability, and bias.**

KNES 4523. Management & Administration in Recreation & Leisure Services
Prerequisites: Junior/Senior standing; KNES 3203
Description: Explores organizational management and administration issues related to recreation and leisure services.
Lecture 3(3-0)
Course Objectives and/or additional information:

1. **Acquisition of knowledge, skills, and practical experience in human resources and event/facility management within the recreation and leisure field.**
2. **Develop the knowledge and abilities to evaluate staff and programs within the organization.**
3. **Students will acquire a basic understanding of finance, marketing and risk management necessary for an entry level position in the recreation & leisure services career field.**

KNES 4693. Fundamentals of Secondary Physical Education
Prerequisites: Junior/Senior standing and KNES 1503, 2423, 2403 or 2413 or 2433, and 3603
Description: Examination and application of the instructional concepts and strategies associated with planning and implementing developmentally appropriate sports, games and activities for adolescents.
Lecture/Lab 3(2-2)
Course Objectives and/or additional information:

1. **Design short and long term plans that are linked to program and instructional goals as well as a variety of student needs (NASPE 3.1, SBEC IV, V, VI, X)**
2. **Develop appropriate (e.g., measurable, developmentally appropriate, performance based) goals and objectives aligned with local, state, and /or national standards. (NASPE 3.2; SBEC I, II, IV, V, VI)**
3. **Design content that is aligned with lesson objectives. (NASPE 3.3; SBEC VI)**
4. **Plan for resources to provide active, fair, and equitable learning experiences. (NASPE 3.4; SBEC V, VI)**
5. **Plan instruction for diverse student needs, adding specific accommodations and/or modifications for student exceptionalities. (NASPE 3.5; SBEC I, IV, V, VI)**
6. **Plan progressive and sequential instruction that addresses the diverse needs of all students. (NASPE 3.6; SBEC I, IV, V, VI)**
7. **Demonstrate knowledge of current technology by planning learning experiences that require students to appropriately use technology to meet lesson objectives. (NASPE 3.7; SBEC IV, VI, VII)**
8. **Demonstrate knowledge of effective demonstrations, explanations, and instructional cues and prompts to link physical activity concepts to appropriate learning experiences. (NASPE 4.2; SBEC I, VI)**
9. **Demonstrate knowledge of managerial rules, routines, and transitions to create and maintain a safe and effective learning environment. (NASPE 4.5; SBEC VI)**
10. **Design strategies to help students demonstrate responsible personal and social behaviors in a productive learning environment. (NASPE 4.6; SBEC III)**

Education Undergraduate Catalog Changes

EDUCATION

Vacant, Chair – Curriculum and Learning
Michaelle Kitchen, Chair – Counseling, Kinesiology, and Special Education
~~Vacant, Chair – Educational Leadership and Technology~~
Professors: ~~Coe, Gore~~
Associate Professors: Andersen, ~~Burger~~, M. Capps, Kitchen, ~~Owen~~
Assistant Professors: **Acuna,** Beechler, Blacklock, **Collins,** ~~Hammer~~, Huang, **Hutson,** ~~Lilienthal~~, Lindt, **Lynskey,**

McIntyre, Miller, ~~Mohr, Schreiber~~, Schultz, Stewart, **Whitehouse,** Wood
Instructors: Curry, Shawver, Wines
Certification Officer: ~~Darter~~ **Blacklock**
Professors Emeriti: **Burger,** E. Capps, **Coe,** Darter, Dowd, Estrada, Furr, Land, Menard, Newton, Redmon, Simpson, Smith

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MISSION STATEMENT FOR THE GORDON T. AND ELLEN WEST COLLEGE OF EDUCATION

The mission of the Gordon T. and Ellen West College of Education, a community of learners, is to prepare successful, reflective professionals through the use of best practices.

Philosophy

The West College of Education believes that learning changes both the individual and society. Developing resiliency and tolerance enhances an individual's potential. The individual becomes a critical thinker and an effective problem solver. Individuals with a cause beyond self contribute to an informed, democratic, and synergistic society. We will establish a reflective and collaborative community to enhance the potential of both the learner and society.

Programs

The undergraduate teacher certification program of the West College of Education functions within a Center for the Professional Development of Teachers (CPDT). The CPDT consists of the Gordon T. and Ellen West College of Education and cooperating public schools. All professional education courses, and most reading courses, are taught as field-based courses in classrooms dedicated to our teacher education program in those professional development schools.

The Gordon T. and Ellen West College of Education offers teacher certification for elementary, secondary, all-level teachers, and a B.A. and B.S. in Sport and Leisure Studies. Students who wish to become elementary teachers (Early Childhood - Grade 6; **4-8 Generalist,** Grades 4-8) graduate with a Bachelor of Science in Interdisciplinary Studies (BSIS). Students who wish to become secondary teachers (Grades ~~8~~ **7**-12) or all-level teachers (Grades K-12) pursue a Bachelor of Science, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Business Administration with a major and/or minor in appropriate teaching fields.

The program requirements listed are those in effect at the time this catalog was published. Changes may be mandated by the Texas Higher Education Coordinating Board (THECB), Texas Education Agency, or Midwestern State University Teacher Education Committee (MSU-TEC). Students should contact the West College of Education for information regarding program changes.

Students already holding a bachelor's degree who wish to seek teacher certification should contact the Certification Officer, Ferguson Hall 214, for an assessment of their degree and specific program requirements.

Summary Information of Teacher Candidates

The teacher education preparation program is accredited by the Texas Education Agency. The following demographic data present the pass rate of the ~~ExCET~~ **TExES** for those completing the initial teacher education program between September 1, ~~2010~~ **2012,** and August 31, ~~2011~~ **2013.**

Overall pass rate:

Total	Female	Male
96% (~~145~~ **134**)	96% (~~123~~ **106)**	~~94~~ **96%** (~~22~~ **28)**

Numbers in parenthesis represent number passing the test.

Admission to the Teacher Certification Program: The Teacher Education Committee expects all teacher education students to be above average scholars; therefore, to be considered for admission to the Teacher Certification

program, the applicant must have

1. an application on file (forms available in Education Office);
2. three ~~letters of~~ recommendation **forms** (forms available in Education Office); **one written letter of recommendation**
3. satisfactory scores on the ~~Texas Higher Education Assessment (THEA~~**) TSI Assessment**, or equivalent, in reading, writing, and mathematics;
4. at least 60 semester hours of credit;
5. a cumulative grade point of 2.75; and
6. a grade point of 2.5 in freshman English (excluding any developmental courses).
7. **satisfactory completion of an interview (TA 227.10)**
8. **completed 15 hours of content area coursework**

When the above steps have been successfully completed, the student's application to the teacher education program is submitted to the Teacher Education Committee. The Teacher Education Committee has the authority to accept or reject an applicant to teacher certification based on the applicant's file and other relevant information. Admission to the Teacher Education Program is highly selective. Should limitations on resources require restrictions to be placed on the number of students admitted in a given semester or year, the Teacher Education Committee will admit students according to the level of distinction achieved.

All students must satisfy the basic skills testing requirement (Texas Higher Education Assessment test) and have 60 semester credit hours prior to enrolling in any professional education course (~~EDUC 3153~~ **EPSY 3153, EDUC** 3162, **3163**, ~~4102, 4202, 4302~~ **4033, 4043, 4053, 4063, 4073, 4083**, ~~4106~~, 4113, 4166, 4173, 4176, 4263, 4466, 4473, **ETEC 4003,** READ 4203, 4213, 4223, 4273, SPED 3613). Students should complete all requirements and file for admission by the time they have completed 60 hours of credit. Students having 60 hours of credit and having met the THEA requirement but who have not been admitted to the program are limited to taking 6 semester hours of professional education.

Undergraduate students seeking teacher certification shall have their official advisor appointed by the Dean of the West College of Education. The Certification Officer will advise post-baccalaureate candidates.

Admission to Student Teaching. Students should make application for student teaching by October 1 for the spring semester and by February 15 for the fall semester. Consideration for admission requires a ~~2.6~~ **2.75** grade point average **(7-12 Mathematic requires a 2.6)** (~~programs in the Prothro-Yeager College of Humanities and Social Sciences require a 2.75~~**~~**~~**) and the dean's approval in professional education and each teaching field. A grade of "D" in a course required for certification cannot be used in a student's teaching field, major, minor, or professional education courses. Students may be required to pass qualifying exams in their respective colleges prior to being admitted to student teaching. Thirty-five hours of field experiences, with at least one-half at the appropriate teaching level, must be completed before student teaching begins. Complete applications are approved by the Teacher Education Committee. Fall applications may not be approved until August if the student has summer courses to complete.

All students receive a speech/language diagnostic assessment as part of their course work. If there are areas for remediation and correction, speech/language therapy is provided for students as a professional service. Admission into student teaching is contingent upon completion of the recommended corrective steps. Proper speech and language are professional competencies and expectations. Having these services available for education students should be viewed as a tangible benefit of attending MSU.

Student teachers seeking elementary certification must have completed ~~Education~~ **EDUC** 2013, ~~3153~~, 3162, ~~4102, 4202, 4302~~ **4033, 4043, 4053, EPSY 3153, ETEC 4003,** ~~Reading~~ **READ** 4203, 4213, 4223, and ~~Special Education~~ **SPED** 3613, prior to student teaching.

Student teachers seeking secondary certification must have completed ~~Reading~~ **READ** 4273, ~~Education~~ **EDUC** 2013, ~~3153~~, ~~3162~~ **3163, 3183,4063 or 4073 or 4083,** 4113, **EPSY 3153, ETEC 4003,** and SPED 3613 prior to student teaching.

Student teaching will be full days for 12 weeks.

~~**Teaching fields in the Prothro Yeager College of Humanities and Social Sciences include Composite Social Studies, English/Language Arts and Reading, French, and Spanish.~~

Fitness for the Teaching Profession. Students who are admitted to teacher education are expected to meet specified non-academic standards that are necessary to be competent teachers. The intent is to ensure that the students recommended for teacher certification are able to effectively and independently carry out the duties for which they are being prepared. The fitness criteria include personality characteristics, responsibility characteristics, communication skills, social relationships, and commitment to the teaching profession. Students who have been identified with a demonstrable discrepancy by ~~two~~ **one** or more professors or cooperating teachers will meet with the ~~Faculty Review~~ **Fitness Alert** Committee to discuss options and develop a growth plan. The ~~Faculty Review~~ **Fitness Alert** Committee consists of three faculty members in the West College of Education appointed by ~~the dean~~ **a department chair.** Failure to make satisfactory progress on the growth plan may result in denied admission to student teaching or removal from the program. **In extreme cases, the student may be immediately removed.**

Recommendation for Certification. University recommendation for teacher certification will require completion of the approved program, satisfactory scores on the state competency examinations (TExES), and approval by the Teacher Education Committee. Recommendation for certification will not be made for a student receiving a grade below "C" in student teaching. Certification requires successful scores on the TExES and an application fee set by the State Board for Educator Certification. Application for certification is made by applying online at the website for the State Board for Education Certification (http://www.sbec.state.tx.us). The Certification Assistant in the Education Office can provide detailed instructions on applying online.
Upon receipt of the University recommendation, the State Board for Educator Certification screens all applicants for Texas certificates for a record of felony or misdemeanor conviction through the Texas Department of Public Safety. In accordance with Article 6252-13c, Texas Civil Statutes, the Commissioner of Education may suspend or revoke a teaching certificate, or refuse to issue a teaching certificate for a person who has been convicted of a felony or misdemeanor crime which directly relates to the duties and responsibilities of the teaching profession.

Bachelor of Science in Interdisciplinary Studies (BSIS)

Elementary/Middle School Certification

The BSIS is designed for initial certification of elementary and middle school teachers. The degree program includes ~~two~~ **three** levels of certification, Early Childhood - Grade 6**, 4-8 Generalist,** and Grades 4-8.

Early Childhood Through Grade 6 (EC-6)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~46~~ **44** hours

ENGL/SPCH 1103 Intro to Communication	**3**
ENGL ~~1113,~~ 1123 Rhetoric and Composition	~~6~~ **3**
ENGL 2613 Survey of American Literature I	**3**
~~SPAN 1134, 1234 Elementary Spanish~~	~~8~~
GNSC 1104, 1204 Life/Earth Science and Physical Science	8
HIST 1133, 1233 Survey of American History	6
POLS 1333, 1433 American Government	6
MATH 1233 College Algebra	3
~~SPCH 1133, 1233, or 2423 Fundamentals of Speech, Voice and Diction, or Interpersonal Communication~~	~~3~~
~~ART 4303 Foundations of Art I~~	~~3~~
Choose 3 hours from the following courses:	**3**
ART 1413 Art Appreciation	
MUSC 1033 Music Appreciation	
~~Choose 3 hours from the following courses:~~	~~3~~
~~PSYC 1103 General Psychology~~	
SOCL 1133 Introduction to Sociology	**3**

ECON 1333 General Economics **3**
~~ECON 2333 Macroeconomics~~
~~ECON 2433 Microeconomics~~
EDUC 2013 School & Society **3**

Teaching Field ~~60~~ **58** hours

~~ART 4303* Foundations of Art I 3~~
ECED 3103 Introduction to Young Children 3
ECED 3173 ESL Methods and Materials 3
ECED 4123 Early Childhood Development: Language and Literacy 3
ECED 4133 Early Childhood Curriculum 3
GNSC 1104*, 1204* Life/Earth Science and Physical Science 8
GNSC 3104 Concepts of Science ~~(or any 4 hour lab science)~~ 4
HIST 1133*, 1233* Survey of American History 6
~~KNES 1213 Concepts of Healthy Living 3~~
MATH 1233* College Algebra 3
MATH 2033, 2043 Structure of the Number System I and II 6
~~MUSC 3813 Foundations of Music I 3~~
POLS 1333*, 1433* American Government 6
~~READ 3013 Child and Adolescent Literature 3~~
~~SPCH 1133, 1233, or 2423* Fundamentals of Speech, Voice and Diction, or Interpersonal Communication 3~~
Choose 3 hours from: **3**
ART 4303 Foundations of Art (if student takes MUSC 1033 in Core)
MUSC 3813 Foundation of Music (if student takes ART 1413 in Core)
SOST 3003 Concepts of Social Studies **3**
KNES 1214 Health, Fitness, & Physical Activity **4**
ENGL 3023 Elem Composition Pedagogies and Practices **3**

*~~29~~ **23** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements** but the total program hours do not change.

Other Requirements ~~14~~ **6** hours

~~COUN 2023 Human Development 3~~
COUN 2143 Human Diversity **3**
EPSY 3153 Educational Psychology **3**
~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~EDUC 2013 School and Society 3~~
~~ENGL Sophomore literature 3~~
~~KNES 2102 Movement Activities for Children 2~~

Professional Education and Reading Blocks ~~29~~ **35** hours

~~Block 1:~~ **Foundation Courses:** Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.
~~EDUC 3153 Educational Psychology 3~~
EDUC 3183 Assessment **3**
EDUC 3162 Classroom Management **2**
SPED 3613 Exceptional Individuals 3

Block ~~2~~ **A**: Student must be admitted to the Teacher Education Program before enrolling.
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4102 Teaching Science in Elementary School 2~~
~~EDUC 4202 Teaching Math in Elementary School 2~~
~~EDUC 4302 Teaching Social Studies in Elementary School 2~~

EDUC 4033	**Teaching Social Studies in Elementary School**	**3**
EDUC 4043	**Teaching Mathematics in Elementary School**	**3**
EDUC 4053	**Teaching Science in Elementary School**	**3**
ETEC 4003	**Advanced Technology**	**3**

Block ~~3~~ **B:** Student must have finished ~~Blocks 1 and 2~~ **Foundation Courses and Block A** before taking the following courses.

READ 4203	Developmental Reading	3
READ 4213	Methods of Teaching Reading and the Language Arts	3

Concurrent or after Block ~~3~~ **B**:

READ 4223	Diagnosis and Correction of Reading Difficulties	3

To be taken in last semester:

EDUC 4166	Student Teaching	6

Total semester hours 120

4-8 Generalist

Academic Foundations and Core Curriculum, plus additional requirements 44 hours

ENGL/SPCH 1103	**Intro to Communication**	**3**
ENGL 1123	**Rhetoric and Composition**	**3**
ENGL 2613	**Survey of American Literature I**	**3**
GNSC 1104, 1204	**Life/Earth Science and Physical Science**	**8**
HIST 1133, 1233	**Survey of American History**	**6**
POLS 1333, 1433	**American Government**	**6**
MATH1233	**College Algebra**	**3**
Choose 3 hours from the following courses:		**3**
	ART 1413 Art Appreciation	
	MUSC 1033 Music Appreciation	
	THEA 1503 Appreciation of Theatre	
SOCL 1133	**Introduction to Sociology**	**3**
ECON 1333	**General Economics**	**3**
EDUC 2013	**School & Society**	**3**

Teaching Field **57 hours**

ECED 3173	**ESL Methods and Materials**	**3**
ENGL 4013	**Introduction to Composition Studies**	**3**
GEOG 3003 or 3013		**3**
GNSC 1104*, 1204*	**Life/Earth Science and Physical Science**	**8**
GNSC 3104	**Concepts of Science**	**4**
HIST 1133*, 1233*	**Survey of American History**	**6**
HIST 3003	**Survey of Texas History**	**3**
MATH1233*	**College Algebra**	**3**
MATH2033, 2043	**Structure of the Number System I and II**	**6**
MATH3113	**Problem Solving**	**3**
PHYS 1533	**Descriptive Astronomy**	**3**
POLS 1333*, 1433*	**American Government**	**6**
READ 3013	**Child and Adolescent Literature**	**3**
SOST 3003	**Concepts of Social Studies**	**3**

***23 hours are duplicated in Academic Foundations and Core Curriculum, plus additional requirements but the total program hours do not change.**

Other Requirements **6 hours**

COUN 2143 Human Diversity **3**
EPSY 3153 Educational Psychology **3**

Professional Education and Reading Blocks **36 hours**

Foundation Courses: Student must have passed ~~THEA~~ TSI or equivalent and 60 semester hours.
EDUC 3183 Assessment **3**
EDUC 3163 Classroom Management for Elementary School **3**
SPED 3613 Exceptional Individuals **3**

Block A: Student must be admitted to the Teacher Education Program before enrolling.
EDUC 4063 Teaching Methods in Social Studies **3**
EDUC 4073 Teaching Methods in Mathematics **3**
EDUC 4083 Teaching Methods in Science **3**
ETEC 4003 Advanced Technology **3**

Block B: Student must have finished Foundation Courses and Block A before taking the following courses.
READ 4203 Developmental Reading **3**
READ 4213 Methods of Teaching Reading and the Language Arts **3**
Concurrent or after Block ~~3~~ B:
READ 4223 Diagnosis and Correction of Reading Difficulties **3**

To be taken in last semester:
EDUC 4166 Student Teaching **6**

Total semester hours **120**

Bachelor of Science in Interdisciplinary Studies
Grade 4 Through Grade 8

The West College of Education offers the following four teaching fields for grades 4-8 certification: English/Language Arts and Reading, Mathematics, Science, and Social Studies.

English Language Arts and Reading
(4-8 Certificate)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~46~~ **44** hours

ENGL/SPCH 1103 Intro to Communication **3**
ENGL ~~1113~~, 1123 Rhetoric and Composition **3** ~~6~~
Inquiry and Creativity **3**
ENGL 2613 Survey of American Literature I **3**
~~SPAN 1134, 1234 Elementary Spanish~~ ~~8~~
GNSC 1104, 1204 Life/Earth Science and Physical Science 8
HIST 1133, 1233 Survey of American History 6
POLS 1333, 1433 American Government 6
MATH 1233 College Algebra 3
~~SPCH 1133, 1233, or 2423 Fundamentals of Speech, Voice and Diction, or Interpersonal Communication~~ ~~3~~
~~ART 1413 or MUSC 1033 Art or Music Appreciation~~ ~~3~~
Choose 3 hours from the following courses: **3**

ART 1413 Art Appreciation
MUSC 1033 Music Appreciation
THEA 1503 Appreciation of Theatre

~~Choose 3 hours from the following courses: 3~~
~~PSYC 1103 General Psychology~~
SOCL 1133 Introduction to Sociology **3**
~~ECON 1333 General Economics~~
~~ECON 2333 Macroeconomics~~
~~ECON 2433 Microeconomics~~
EDUC 2013 School and Society **3**

Teaching Field (Major) ~~30~~ **42** hours

ENGL/SPCH 1103* Intro to Communication **3**
ENGL ~~1113*,~~ 1123* Rhetoric and Composition **3** ~~6~~
Inquiry and Creativity **3**
ENGL **2613*** Sophomore literature **3** ~~6~~
ENGL 2__3 Sophomore Literature **3**
ENGL 3213 Digital & New Media Rhetoric **3**
ENGL 3273 (Poetry) or ENGL 3343 (The Novel) **3**
ENGL 3503 Advanced Survey of Literature 3
ENGL 3513 Advanced Grammar 3
ENGL 4013 Introduction to Composition Studies 3
Advanced English (3000 or 4000 level) **9** ~~6~~
READ 3013 Child and Adolescent Literature 3

*~~6~~ **9** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements **19** ~~21~~ hours

~~COUN 2023 Human Development 3~~
COUN 2143 Human Diversity **3**
~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~EDUC 2013 School and Society 3~~
ECED 3173 ESL Methods and Materials **3**
EPSY 3153 Educational Psychology **3**
GNSC 3104 Concepts of Science or any 4 hour lab science 4
~~KNES 2102 Movement Activities for Children 2~~
MATH 2033 and 2043 Structure of the Number System I and II 6

Professional Education and Reading Blocks **27** ~~29~~ hours

~~Block 1:~~ **Foundation Courses:** Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.
~~EDUC 3153 Educational Psychology 3~~
EDUC 3183 Assessment **3**
EDUC 3163 Classroom Management **3**
SPED 3613 Exceptional Individuals 3

Block 2 **A**: Student must be admitted to the Teacher Education Program before enrolling.
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4102 Teaching Science in Elementary School 2~~
~~EDUC 4202 Teaching Math in Elementary School 2~~
~~EDUC 4302 Teaching Social Studies in Elementary School 2~~
READ 4203 Developmental Reading **3**
READ 4213 Methods of Teaching Reading and the Language Arts **3**

ETEC 4003 Advanced Technology **3**

~~Block 3: Student must have finished Blocks 1 and 2 before taking the following courses.~~
~~READ 4203 Developmental Reading 3~~
~~READ 4213 Methods of Teaching Reading and the Language Arts 3~~

Concurrent or after Block ~~3~~ **A**:
~~READ 4223 Diagnosis and Correction of Reading Difficulties 3~~
READ 4273 Content Reading **3**

To be taken in last semester:
EDUC 4166 Student Teaching 6

Total Semester Hours 120

Mathematics
(4-8 Certificate)

Academic Foundations and Core Curriculum**, plus additional requirements 44** ~~46~~ hours

ENGL/SPCH 1103 Introduction to Communication **3**
ENGL ~~1113,~~ 1123 Rhetoric and Composition **3** ~~6~~
ENGL 2613 Survey of American Literature I **3**
~~SPAN 1134, 1234 Elementary Spanish 8~~
GNSC 1104, 1204 Life/Earth Science and Physical Science 8
HIST 1133, 1233 Survey of American History 6
POLS 1333, 1433 American Government 6
MATH 1233 College Algebra 3
~~SPCH 1133, 1233, or 2423 Fundamentals of Speech, Voice and Diction, or Interpersonal Communication 3~~
~~ART 1413 or MUSC 1033 Art or Music Appreciation 3~~
~~PSYC 1103 or SOCL 1133 General Psychology or Introductory to Sociology 3~~
ECON 1333 or ECON 2333 Gen. or Macro Economics **3**
SOCL 1133 Introductory to Sociology **3**
Choose 3 hours from the following courses: **3**
ART 1413 Art Appreciation
MUSC 1033 Music Appreciation
THEA 1503 Appreciation of Theatre
EDUC 2013 School and Society **3**

Teaching Field (Major) **30** ~~24~~ hours

MATH 1053 Contemporary Mathematics **3**
MATH 1233* College Algebra 3
MATH1433 Plane Trigonometry **3**
MATH 2033, 2043 Structure of Number System I and II 6
MATH 3033 Modeling 3
MATH 3113 Techniques in Problem Solving 3
MATH 3123 Concepts of Geometry 3
MATH 4033 Foundations of Discrete Math 3
STAT 3573 Probability and Statistics 3

*3 hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements **19** ~~24~~ hours

~~COUN 2023 Human Development 3~~
COUN 2143 Human Diversity 3
~~ECON 1333 or 2333 General Economics or Macroeconomics 3~~
~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~EDUC 2013 School and Society 3~~
~~GEOG 3003 or 3013 Geography of the World or Geography of North America 3~~
ECED 3173 ESL Methods and Materials 3
ENGL 4013 Introduction to Composition Studies 3
EPSY 3153 Educational Psychology 3
GNSC 3104 Concepts of Science or any 4 hour lab science 4
~~KNES 2102 Movement Activities for Children 2~~
READ 3013 Child and Adolescent Literature 3

Professional Education and Reading Blocks **30** ~~29~~ hours

~~Block 1~~ **Foundation Courses**: Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.
~~EDUC 3153 Educational Psychology 3~~
EDUC 3163 Classroom Management 3
EDUC 3183 Assessment 3
SPED 3613 Exceptional Individuals 3

Block ~~2~~ **A**: Student must be admitted to the Teacher Education Program before enrolling.
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4102 Teaching Science in Elementary School 2~~
~~EDUC 4202 Teaching Math in Elementary School 2~~
~~EDUC 4302 Teaching Social Studies in Elementary School 2~~
EDUC 4073 Teaching Methods in Mathematics (Middle & High School) 3
ETEC 4003 Advanced Technology 3

Block ~~3~~ **B**:Student must have finished **Foundation and Block A** ~~Blocks 1 and 2~~ before taking the following courses.
READ 4203 Developmental Reading 3
READ 4213 Methods of Teaching Reading and the Language Arts 3
Concurrent or after Block ~~3~~ **B**:
READ 4273 Content Reading 3

To be taken in last semester:
EDUC 4166 Student Teaching 6

Total semester hours 120

Science
(4-8 Certificate)

Academic Foundations and Core Curriculum**, plus additional requirements 44** ~~46~~ hours

EDUC 2013 School and Society 3
ENGL/SPCH 1103 Introduction to Communication 3
ENGL ~~1113,~~ 1123 Rhetoric and Composition **3** ~~6~~
ENGL 2613 Survey of American Literature I 3
~~SPAN 1134, 1234 Elementary Spanish 8~~
GEOS 1134 Physical Geology 4
GNSC 1204 Physical Science 4

HIST 1133, 1233 Survey of American History 6
POLS 1333, 1433 American Government 6
MATH 1233 College Algebra 3
~~SPCH 1133, 1233, or 2423 Fundamentals of Speech, Voice and Diction, or Interpersonal Communication 3~~
~~ART 1413 or MUSC 1033 Art or Music Appreciation 3~~
Choose 3 hours from the following courses: 3
ART 1413 Art Appreciation
MUSC 1033 Music Appreciation
THEA 1503 Appreciation of Theatre
~~Choose 3 hours from the following courses: 3~~
~~PSYC 1103 General Psychology~~
SOCL 1133 Introduction to Sociology **3**
~~ECON 1333 General Economics~~
~~ECON 2333 Macroeconomics~~
~~ECON 2433 Microeconomics~~
SCIE 2103 Interdisciplinary Science Research 3

Teaching Field (Major) **39** ~~34~~ hours

BIOL 1144 General Zoology 4
BIOL 1544 General Botany 4
BIOL 3434 or 3534 Entomology or Systematic Botany 4
~~CHEM 1103 Introductory Chemistry 3~~
ENSC 1114 Environmental Science 4
GEOS 1134* Physical Geology 4
GEOS 1234 Historical Geology 4
GEOS **3134** ~~3034~~ Oceanography 4
GNSC 1204* Physical Science 4
GNSC 3104 Concepts of Science 4
PHYS 1533 Descriptive Astronomy 3
~~Choose 2 courses from: 8~~
~~BIOL 1144 General Zoology~~
~~BIOL 1544 General Botany~~
~~ENSC 1114 Foundations of Environmental Science~~
~~GEOS 1234 Historical Geology~~

*8 hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements **18** ~~20~~ hours

~~COUN 2023 Human Development 3~~
COUN 2143 Human Diversity 3
ECED 3173 ESL Methods and Materials 3
EPSY 3153 Educational Psychology 3
~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~EDUC 2013 School and Society 3~~
~~KNES 2102 Movement Activities for Children 2~~
MATH 2033 and 2043 Structure of the Number System I and II 6
READ 3013 Child and Adolescent Literature 3

Professional Education and Reading Blocks **27** ~~29~~ hours

~~Block 1~~ **Foundation Courses**: Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.
~~EDUC 3153 Educational Psychology 3~~

EDUC	**3163**	**Classroom Management**	**3**
EDUC	**3183**	**Assessment**	**3**
SPED	3613	Exceptional Individuals	3

Block ~~2~~ **A**: Student must be admitted to the Teacher Education Program before enrolling.

~~EDUC~~	~~3162~~	~~Classroom Management~~	~~2~~
~~EDUC~~	~~4102~~	~~Teaching Science in Elementary School~~	~~2~~
~~EDUC~~	~~4202~~	~~Teaching Math in Elementary School~~	~~2~~
~~EDUC~~	~~4302~~	~~Teaching Social Studies in Elementary School~~	~~2~~
EDUC	**4083**	**Teaching Methods in Science (Middle & High School)**	**3**
ETEC	**4003**	**Advanced Technology**	**3**

Block ~~3~~ **B**:Student must have finished Blocks 1 and 2 before taking the following courses.

READ	4203	Developmental Reading	3
~~READ~~	~~4213~~	~~Methods of Teaching Reading and the Language Arts~~	~~3~~

~~Concurrent or after Block 3:~~

READ	4273	Content Reading	3

To be taken in last semester:

EDUC	4166	Student Teaching	6

Total Semester Hours **120** ~~121~~

Social Studies
(4-8 Certificate)

Academic Foundations and Core Curriculum**, plus additional requirements 44** ~~46~~ hours

EDUC	**2013**	**School and Society**	**3**
ENGL/SPCH	**1103**	**Introduction to Communication**	**3**
ENGL	~~1113,~~ 1123	Rhetoric and Composition	**3** ~~6~~
ENGL	**2613**	**Survey of American Literature I**	**3**
ECON	**1333 or ECON 2333**	**Gen. or Macro. Economics**	**3**
~~SPAN~~	~~1134, 1234~~	~~Elementary Spanish~~	~~8~~
GNSC	1104, 1204	Life/Earth Science and Physical Science	8
HIST	1133, 1233	Survey of American History	6
POLS	1333, 1433	American Government	6
MATH	1233	College Algebra	3
~~SPCH~~	~~1133, 1233, or 2423~~	~~Fundamentals of Speech, Voice and Diction, or Interpersonal Communication~~	~~3~~
~~ART~~	~~1413 or MUSC 1033~~	~~Art or Music Appreciation~~	~~3~~
~~ECON~~	~~1333~~	~~General Economics~~	~~3~~
SOCL	**1133**	**Introductory Sociology**	**3**
Choose 3 hours from the following courses:			**3**
	ART 1413	**Art Appreciation**	
	MUSC 1033	**Music Appreciation**	
	THEA 1503	**Appreciation of Theatre**	

Teaching Field (Major) 36 hours

~~ECON~~	~~1333*~~	~~General Economics~~	~~3~~
GEOG	3003	Geography of the World	3
GEOG	3013	Geography of North America	3
HIST	1133*, 1233*	Survey of American History	6
HIST	1333	Survey of Western Civilization	3
HIST	1433	Survey of Western Civilization	3

HIST	3003	Survey of Texas History	3
HIST	3133	Comparative World Religions and Cultures	3
POLS	1333*, 1433*	American Government	6
POLS	**2523**	**Foundations of Govt and Politics**	**3**
SOST	3003	Concepts of Social Studies	3

*~~15~~ **12** hours are duplicated in Academic Foundations and Core Curriculum **, plus additional requirements**, but the total program hours do not change.

Other Requirements **25** ~~24~~ hours

~~COUN~~	~~2023~~	~~Human Development~~	~~3~~
~~EDUC~~	~~1023~~	~~or computer proficiency demonstrated through department exam.~~	~~3~~
~~EDUC~~	~~2013~~	~~School and Society~~	~~3~~
COUN	**2143**	**Human Diversity**	**3**
ECED	**3173**	**ESL Methods and Materials**	**3**
ENGL	**4013**	**Introduction to Composition Studies**	**3**
EPSY	**3153**	**Educational Psychology**	**3**
GNSC	3104	Concepts of Science or any 4 hour lab science	4
~~KNES~~	~~2102~~	~~Movement Activities for Children~~	~~2~~
MATH	2033 and 2043	Structure of the Number System I and II	6
READ	3013	Child and Adolescent Literature	3

Professional Education and Reading Blocks **27** ~~29~~ hours

~~Block 1~~ **Foundaton Courses**: Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.

~~EDUC~~	~~3153~~	~~Educational Psychology~~	~~3~~
EDUC	**3163**	**Classroom Management**	**3**
EDUC	**3183**	**Assessment**	**3**
SPED	3613	Exceptional Individuals	3

Block ~~2~~ **A**:Student must be admitted to the Teacher Education Program before enrolling.

~~EDUC~~	~~3162~~	~~Classroom Management~~	~~2~~
~~EDUC~~	~~4102~~	~~Teaching Science in Elementary School~~	~~2~~
~~EDUC~~	~~4202~~	~~Teaching Math in Elementary School~~	~~2~~
~~EDUC~~	~~4302~~	~~Teaching Social Studies in Elementary School~~	~~2~~
EDUC	**4063**	**Teaching Methods in Social Studies (Middle & High School)**	**3**
ETEC	**4003**	**Advanced Technology**	**3**

Block ~~3~~ **B**: Student must have finished Blocks 1 and 2 before taking the following courses.

READ	4203	Developmental Reading	3
~~READ~~	~~4213~~	~~Methods of Teaching Reading and the Language Arts~~	~~3~~
~~Concurrent or after Block 3:~~			
READ	4273	Content Reading	3

To be taken in last semester:

EDUC	4166	Student Teaching	6

Total Semester Hours 120

Bachelor of Science in Interdisciplinary Studies
Special Education Early Childhood through Grade 12
General Education Early Childhood through Grade 6

Academic Foundations and Core Curriculum**, plus additional requirements** 44 hours

EDUC 2013 School and Society **3**
ENGL/SPCH 1103 Introduction to Communication **3**
ENGL ~~1113,~~ 1123 Rhetoric and Composition **3** ~~6~~
~~ENGL Sophomore literature 6~~
ENGL 2613 Survey of American Literature I **3**
GNSC 1104, 1204 Life/Earth Science and Physical Science 8
HIST 1133, 1233 Survey of American History 6
POLS 1333, 1433 American Government 6
MATH 1233 College Algebra 3
~~SPCH 1133, 1233, or 2423 Fundamentals of Speech, Voice and Diction, or Interpersonal Communication 3~~
~~One course from: ART 4303, MUSC 3813, THEA 4423 3~~
~~Choose 3 hours from the following courses: 3~~
~~PSYC 1103 General Psychology~~
SOCL 1133 Introduction to Sociology **3**
ECON 1333 General Economics **3**
~~ECON 2333 Macroeconomics~~
~~ECON 2433 Microeconomics~~
Choose 3 hours from the following courses: **3**
ART 1413 Art Appreciation
MUSC 1033 Music Appreciation
THEA 1503 Appreciation of Theatre

Teaching Field (Major) **61** ~~66~~ hours

One course from: ART 4303 **or** MUSC 3813~~, THEA 4423*~~ 3
~~ECED 3103 Introduction to Young Children 3~~
~~ECED 4123 Early Childhood Development: Language and Literacy 3~~
GNSC 1104*, 1204* Life/Earth Science and Physical Science 8
GNSC 3104 Concepts of Science or any 4 hour lab science 4
HIST 1133*, 1233* Survey of American History 6
KNES 1214 Health, Fitness and Physical Activity **4**
MATH 1233* College Algebra 3
MATH 2033, 2043 Structure of Number System I and II 6
POLS 1333*, 1433* American Government 6
~~READ 3013 Child and Adolescent Literature 3~~
SPED 3313 Teaching Strategies for Cognitive Disorders 3
SPED 4113 Foundations of Special Education 3
SPED 4123 Assessment 3
SPED 4313 Tier III Reading Strategies 3
SPED 4513 Teaching Strategies for Affective Disorders 3
SPED 4523 Vocational/Transitional Education 3
SPED 4533 Early Childhood Special Education 3

*~~26~~ **23** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements **6** ~~11~~ hours

COUN 2143 Human Diversity **3**
EPSY 3153 Educational Psychology **3**
~~COUN 2023 Human Development 3~~
~~EDUC 1023 or computer proficiency demonstrated through department exam.3~~
~~EDUC 2013 School and Society 3~~
~~KNES 2102 Movement Activities for Children 2~~

Professional Education and Reading Blocks **33** ~~26~~ hours

~~Block 1~~ **Foundation Courses**: Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.

~~EDUC~~	~~3153~~	~~Educational Psychology~~ ~~3~~
EDUC	**3163**	**Classroom Management** **3**
EDUC	**3183**	**Assessment** **3**
SPED	3613	Exceptional Individuals 3

Block ~~2~~ **A:** Student must be admitted to the Teacher Education Program before enrolling.

~~EDUC~~	~~3162~~	~~Classroom Management~~ ~~2~~
~~EDUC~~	~~4102~~	~~Teaching Science in Elementary School~~ ~~2~~
~~EDUC~~	~~4202~~	~~Teaching Math in Elementary School~~ ~~2~~
~~EDUC~~	~~4302~~	~~Teaching Social Studies in Elementary School~~ ~~2~~
EDUC	**4033**	**Teaching Social Studies in Elementary School** **3**
EDUC	**4043**	**Teaching Mathematics in Elementary School** **3**
EDUC	**4053**	**Teaching Science in Elementary School** **3**
ETEC	**4003**	**Advanced Technology** **3**

Block ~~3~~ **B**: Student must have finished **Foundation and** Block~~s 1 and 2~~ **A** before taking the following courses.

READ	4203	Developmental Reading 3
READ	4213	Methods of Teaching Reading and the Language Arts 3

To be taken in last semester:

EDUC	4166	Student Teaching 6

Total semester hours 121

Bachelor of Science in Interdisciplinary Studies
Bilingual Generalist and General Education EC-6

Academic Foundations and Core Curriculum**, plus additional requirements** ~~46~~ **44** hours

EDUC	**2013**	**School and Society** **3**
ENGL/SPCH	**1103**	**Introduction to Communication** **3**
ENGL	~~1113,~~ 1123	Rhetoric and Composition **3** ~~6~~
ENGL	**2613**	**Survey of American Literature I** **3**
~~SPAN~~	~~1134, 1234~~	~~Elementary Spanish~~ ~~8~~
GNSC	1104, 1204	Life/Earth Science and Physical Science 8
HIST	1133, 1233	Survey of American History 6
POLS	1333, 1433	American Government 6
MATH	1233	College Algebra 3
~~SPCH~~	~~1133, 1233, or 2423~~	~~Fundamentals of Speech, Voice and Diction, or Interpersonal Communication~~ ~~3~~
~~ART~~	~~4303 or MUSC 3813~~	~~Foundations of Art or Music~~ ~~3~~
Choose 3 hours from the following courses:		**3**
	ART	**1413 Art Appreciation**
	MUSC	**1033 Music Appreciation**
~~Choose 3 hours from the following courses:~~		~~3~~
	~~PSYC~~	~~1103 General Psychology~~
SOCL	1133	Introduction to Sociology **3**
ECON	1333	General Economics **3**
	~~ECON~~	~~2333 Macroeconomics~~
	~~ECON~~	~~2433 Microeconomics~~

Teaching Field (Major) ~~69~~ **58** hours

ART 4303 or MUSC 3813 Foundations of Art or Music 3
~~COUN 2023 Human Development 3~~
~~ECED 3173 ESL Methods & Materials 3~~
~~ECED 4123 Early Childhood Language & Literacy 3~~
~~ECED 4133 Early Childhood Curriculum 3~~
EDBE 3213 Concepts/Foundations of Bilingual & Multicultural Education 3
~~EDBE 3313 Methods & Materials in Bilingual Education 3~~
EDBE 4303 Second Language Acquisition 3
EDBE 4323 Reading & Language Arts in Bilingual Education 3
EDBE 4203 Implement. Of EC-6 Dual Lang. Curiculum Models 3
~~EDBE 4333 Assessment in Bilingual Education 3~~
EDBE 4333 Bilingual Methods and Assessment 3
ENGL 3023 Elementary Composition Pedagogies & Practices 3
GNSC 1104*, 1204* Life/Earth Science and Physical Science 8
GNSC 3104 Concepts of Science ~~or any 4 hour lab science~~ 4
HIST 1133*, 1233* Survey of American History 6
KNES 1214 Health, Fitness and Physical Activity 4
MATH 1233* College Algebra 3
MATH 2033, 2043 Structure of Number System I and II 6
POLS 1333*, 1433* American Government 6
~~READ 3013 Child and Adolescent Literature 3~~
~~SPCH 1133, 1233, or 2423* Fundamentals of Speech, Voice and Diction, or Interpersonal Communication 3~~

*~~29~~ **23** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements ~~8~~ **6** hours

~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~EDUC 2013 School and Society 3~~
~~KNES 2102 Movement Activities for Children 2~~
COUN 2143 Human Diversity 3
EPSY 3153 Educational Psychology 3

Professional Education and Reading Blocks ~~29~~ **35** hours

~~Block 1~~ **Foundation Courses**: Student must have passed ~~THEA~~ **TSI** or equivalent and 60 semester hours.
~~EDUC 3153 Educational Psychology 3~~
EDUC 3162 Classroom Management 2
EDUC 3183 Assessment 3
SPED 3613 Exceptional Individuals 3

Block ~~2~~ **A**:Student must be admitted to the Teacher Education Program before enrolling.
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4102 Teaching Science in Elementary School 2~~
~~EDUC 4202 Teaching Math in Elementary School 2~~
~~EDUC 4302 Teaching Social Studies in Elementary School 2~~
EDUC 4033 Teaching Social Studies in Elementary School 3
EDUC 4043 Teaching Math in Elementary School 3
EDUC 4053 Teaching Science in Elementary School 3
ETEC 4003 Advanced Technology 3

Block ~~3~~ **B**: Student must have finished **Foundations and Block A** ~~Blocks 1 and 2~~ before taking the following courses.

READ 4203	Developmental Reading	3
READ 4213	Methods of Teaching Reading and the Language Arts	3
Concurrent or after Block ~~3~~ **B**:		
READ 4223	Diagnosis and Correction of Reading Difficulties	3
To be taken in last semester:		
EDUC 4163	Student Teaching	3
EDUC 4263	Student Teaching in Bilingual Classroom	3
Total Semester Hours		**120** ~~123~~

~~ENDORSEMENT~~

~~English as a Second Language~~

~~This endorsement is available at the graduate level. With permission, students within one semester of graduation may begin course work on this graduate endorsement. See the *Graduate Catalog*.~~

SECONDARY TEACHER CERTIFICATION
Grades ~~8~~ **7** - 12

Secondary teacher certification is based on bachelor's degrees offered in academic areas of the University. In addition to the requirements for the degree, students seeking certification take 14 hours of Professional Education, a course in reading, and student teaching. The requirements for secondary teacher certification may be slightly different from those of the degree without teacher certification but include academic foundations, a major field, a minor field, and special program requirements for the degree and major. Careful planning and advisement with both the major college and the West College of Education are important.

Professional Education for Secondary Certification. The professional secondary education block includes student teaching and field experience in schools and provides beginning skills for teaching. Initial certification is the first step in a teacher's career path for professional development.

Teaching Fields. The West College of Education offers the following teaching fields for grades ~~8~~ **7**-12 certification: English Language Arts and Reading, History, Mathematics, Science (Composite and Life), and Social Studies. An additional teaching field is offered in French.

BACHELOR OF ARTS WITH SECONDARY CERTIFICATION
(GRADES ~~8~~ **7** -12)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~47~~ **42** hours

EDUC 2013 School and Society	**3**
ENGL/SPCH 1103 Introduction to Communication	**3**
ENGL ~~1113,~~ 1123 **Rhetoric and Composition**	**3** ~~6~~
~~6 hours sophomore literature* or Humanities~~	~~6~~
~~SPCH 1133 or 2423~~	~~3~~
MATH 1233	3
~~Natural Sciences - two laboratory courses~~	~~6~~
Life/Physical Science	**6**
HIST 1133, 1233	6
POLS 1333, 1433	6
Language Philosophy and Culture*	**3**
Creative Arts	**3**
Social and Behavioral Science**	**3**
CAO Undergraduate Inquiry and Creativity***	**3**
~~ECON 1333 or 2333 or 2433**~~	~~3~~
~~PSYC 1103 or SOCL 1133~~	~~3~~

~~EXPH 2 activity courses 2~~
~~Fine Arts 3~~

*** 3 hours foreign language required for English/Language Arts/Rdg and Social Studies programs**
**** ECON 1333 required for Social Studies program; PSYC 1103 required for English/Language Arts/Rdg program**
***** 3 hours from Inquiry and Creativity; SOCL 1133 required for Social Studies program**
~~* Sophomore literature required for English Language Arts and Reading.~~
~~** Econ 2333 required for Social Studies program.~~

~~Additional General and B.A. Requirements 17 hours~~

~~EDUC 1023 or computer proficiency demonstrated through department exam. 3~~
~~Foreign Language 2 years of one foreign language 14~~
~~Professional Education 23 hours~~

~~EDUC 2013 School and Society 3~~

~~Block 1: Student must have passed THEA or equivalent and 60 semester hours.~~
~~EDUC 3153 Educational Psychology 3~~
~~SPED 3613 Exceptional Individuals 3~~

~~Block 2: Student must be admitted to the Teacher Education Program before enrolling.~~
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4113 Planning and Assessment for Secondary Education and All-Level 3~~
~~READ 4273 Content Reading 3~~

~~To be taken in last semester:~~
~~EDUC 4166 Student Teaching 6~~

English Language Arts and Reading

Major: English 36 hours

ENGL/SPCH 1103*	**3**
ENGL ~~1113*,~~ 1123*	~~6~~ **3**
6 hours sophomore literature~~*~~	6
ENGL 3213, 3503, 3513 and 4013	12
3 additional hours from 3000 level	3
~~3 hours from ENGL 4773, 4783, 4863, 4873, 4883, or 4953~~	~~3~~
~~6~~ **9** additional hours from 4000 level	~~6~~ **9**

*~~12~~ **6** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Reading Concentration 9 hours

READ 4223, 4253, and 4273~~*~~ 9

~~*3 hours are duplicated in Professional Education but the total program hours do not change.~~

~~Elective 3 hours~~

Other Requirements	**15**
COUN 2143 Human Diversity	**3**
EPSY 3153 Educational Psychology	**3**

9 hours Foreign Language **9**

Professional Education **24**

Foundation Courses: Student must have passed ~~THEA~~ TSI or equivalent and 60 semester hours.
EDUC 3163 Classroom Management **3**
EDUC 3183 Assessment **3**
SPED 3613 Exceptional Individuals **3**

Block B: Student must have finished Foundation Courses and be admitted to the Teacher Education Program before enrolling
READ 4203 Developmental Reading **3**
READ 4213 Methods of Teaching Reading and the Language Arts **3**
ETEC 4003 Advanced Technology **3**

To be taken in last semester:
EDUC 4166 Student Teaching **6**

Total Semester Hours 120

Social Studies

Major: History 30 hours

HIST 1133*, 1233* Survey of American History 6
HIST 1333, 1433 Survey of Western Civilization 6
HIST 3003Survey of Texas History 3
HIST 3133World Religions and Cultures 3
HIST 4433Twentieth Century Europe 3
3 hours advanced U.S. History 3
3 hours advanced European History 3
3 hours advanced Non-U.S., Non-European History 3

*6 hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Interdisciplinary Minor ~~21~~ **30** hours

POLS 1333*, 1433* American Government 6
POLS 2523 Foundations of Government and Politics 3
POLS 3313 Introduction to Political Theory 3
~~ECON 2333* Macroeconomic Principles 3~~
GEOG 3003, 3013 Geography of the World/Geography of North America 6
Foreign Language **9**
SOST 3003 Concepts of Social Studies **3**

*~~9~~ **6** hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements,** but the total program hours do not change.

Other Requirements **6**
COUN 2143 Human Diversity **3**
EPSY 3153 Educational Psychology **3**

Professional Education **24**

Foundation Courses: Student must have passed THEA or equivalent and 60 semester hours.

EDUC 3163 Classroom Management **3**
EDUC 3183 Assessment **3**
SPED 3613 Exceptional Individuals **3**

Block A: Student must be admitted to the Teacher Education Program before enrolling
EDUC 4063 Teaching Methods in Social Studies (Middle School & High School) **3**
ETEC 4003 Advanced Techology **3**
READ 4273 Content Reading **3**

To be taken in last semester:
EDUC 4166 Student Teaching **6**

Total Semester Hours ~~123~~ **120**

BACHELOR OF SCIENCE WITH SECONDARY CERTIFICATION
(GRADES ~~8~~ **7** -12)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~46~~ **42-43** hours

EDUC 2013 School and Society **3**
ENGL/SPCH 1103 Introduction to Comm **3**
ENGL ~~1113,~~ 1123 **3** ~~6~~
~~6 hours humanities (two semesters of one foreign language required for science majors) 6~~
~~SPCH 1133 or 2423 3~~
MATH 1233* **3** ~~4~~
~~Natural Sciences - two semesters of one lab science 8~~
Life/Physical Science **6**
**CHEM ~~1141,~~ 1143, ~~1241,~~ 1243
~~***PHYS 1144 or 1624 and 1244 or 2644~~
HIST 1133, 1233 6
POLS 1333, 1433 6
Language Philosophy and Culture **3**
Creative Arts **3**
Social & Behavioral Science **3**
SOCL 1133 required for Composite & Life Sciences majors
CAO Undergraduate Inquiry & Creativity **3**
SCIE 2103 required for Composite & Life Sciences majors
SOCL 1133 required for Math majors
~~PSYC 1103 or SOCL 1133 3~~
~~EXPH 2 activity courses 2~~
~~Fine Arts 3~~

* Math majors should take MATH 1634 instead.
** Required for composite science and life science majors.
~~*** Required for life science major.~~

~~Professional Education 23 hours~~

~~EDUC 2013 School and Society 3~~

~~Block 1: Student must have passed THEA or equivalent and 60 semester hours.~~
~~EDUC 3153 Educational Psychology 3~~
~~SPED 3613 Exceptional Individuals 3~~

~~Block 2: Student must be admitted to the Teacher Education Program before enrolling.~~
~~EDUC 3162 Classroom Management 2~~
~~EDUC 4113 Planning and Assessment for Secondary Education and All-Level 3~~
~~READ 4273 Content Reading 3~~

~~To be taken in last semester:~~
~~EDUC 4166 Student Teaching 6~~
~~Additional General Requirements 6 hours~~

~~EDUC 1023 or demonstrate computer proficiency through department exam. 3~~
~~(Math majors meet requirement in additional requirements.)~~
~~ECON 1333 or 2333 or 2433 3~~

Mathematics
(Grades ~~8~~ **7** -12)

Major: Mathematics **32** ~~36~~ hours

~~MATH 1634*~~	~~Calculus I~~	~~4~~
MATH 1734	Calculus II	4
MATH 2133	Introduction to Modern Mathematics	3
MATH 2534	Calculus III	4
MATH 3133	Foundations of Geometry	3
MATH 3293	Abstract Algebra I	3
MATH 3833	Linear Algebra	3
MATH 4133	Mathematical Statistics I	3
MATH 4733	Introductory Analysis I	3
3 hours chosen from one of the following:		3
	MATH 4143 Mathematical Statistics II	
	MATH 4293 Abstract Algebra II	
	MATH 4833 Introductory Analysis II	
3 advanced hours elective MATH (exclusive of 3033, 3113, 3123, 4033)		3

~~*4 hours are duplicated in Academic Foundations and Core Curriculum but the total program hours do not change.~~

~~Program~~ **Other** Requirements ~~18~~ **23** hours

CMPS 1044	Computer Science I	4
CMPS 1053	Computer Science II	3
STAT 3573	Probability and Statistics	3
COUN 2143	**Human Diversity**	**3**
EPSY 3153	**Educational Psychology**	**3**
2 semesters lab science ~~(different than core requirement)~~		8

~~*3 of these hours are duplicated in Additional General Requirements but the total program hours do not change.~~

Professional Education 21

Foundation Courses: Student must have passed ~~THEA~~ TSI or equivalent and 60 semester hours.

EDUC	**3163 Classroom Management**	**3**
EDUC	**3183 Assessment**	**3**
SPED	**3613 Exceptional Individuals**	**3**

Block A: Student must be admitted to the Teacher Education Program before enrolling
EDUC 4073 Teaching Methods in Mathematics (Middle School & High School) 3
READ 4273 Content Reading 3

To be taken in last semester:
EDUC 4166 Student Teaching 6
Total semester hours **120** ~~123~~

Composite Science
(Grades ~~8~~ **7** -12)

Major: Composite Science 44 hours

BIOL 1144 General Zoology 4
BIOL 1544 General Botany 4
BIOL 3054 Principles of Biology I 4
BIOL 3104 Fundamental Genetics 4
Choose 4 hours from: 4
BIOL 3024, 3434, 3534
GEOS 1134 Physical Geology 4
GEOS 1234 Historical Geology 4
~~Choose 4 hours from: 4~~
~~GEOS 1234 or ENSC 1114~~
GEOS 3034 Oceanography 4
CHEM 2003, 2001 Organic Chemistry 4
PHYS 1144, 1244 General Physics 8

~~Program~~ **Other** Requirement**s** ~~3~~ **11** hours

MATH 1433 Plane Trigonometry 3
COUN 2143 Human Diversity 3
EPSY 3153 Educational Psychology 3
CHEM 1141 General Chemistry Lab 1
CHEM 1241 General Chemistry Lab 1

Professional Education 24

Foundation Courses: Student must have passed ~~THEA~~ TSI or equivalent and 60 semester hours.
EDUC 3163 Classroom Management 3
EDUC 3183 Assessment 3
SPED 3613 Exceptional Individuals 3

Block A: Student must be admitted to the Teacher Education Program before enrolling
EDUC 4083 Teaching Methods in Science (Middle School & High School) 3
ETEC 4003 Advanced Techology 3
READ 4273 Content Reading 3

To be taken in last semester:
EDUC 4166 Student Teaching 6

Total semester hours **121** ~~122~~

Life Science
(Grades ~~8~~ **7** -12)

Major: Biology ~~31-32~~ **35** hours

BIOL 1144 General Zoology	4
BIOL 1544 General Botany	4
BIOL 3054 Principles of Biology I	4
BIOL 3064 Principles of Biology II	4
BIOL 3144 or 3044 Physiology or Bacteriology	4
BIOL 3104 Fundamental Genetics	4
BIOL 3534 Systematic Botany	4
BIOL 3434 or ~~3643~~ **3634** Entomology or Invertebrate Zoology	~~3~~ **4**
BIOL 4143 Evolution & Systematics	**3**

~~Program~~ **Other** Requirements ~~15~~ **19** hours

CHEM ~~1143,~~ 1141 General Chemistry	**1** ~~4~~
CHEM ~~1243,~~ 1241 General Chemistry	**1** ~~4~~
CHEM 2003, 2001 Organic Chemistry	4
MATH 1433 Plane Trigonometry	3
PHYS 1144 Physics I	**4**
COUN 2143 Human Diversity	**3**
EPSY 3153 Educational Psychology	**3**

Professional Education **24**

Foundation Courses: Student must have passed ~~THEA~~ TSI or equivalent and 60 semester hours.

EDUC 3163 Classroom Management	**3**
EDUC 3183 Assessment	**3**
SPED 3613 Exceptional Individuals	**3**

Block A: Student must be admitted to the Teacher Education Program before enrolling

EDUC 4083 Teaching Methods in Science	**3**
ETEC 4003 Advanced Technology	**3**
READ 4273 Content Reading	**3**

To be taken in last semester:

EDUC 4166 Student Teaching	**6**

Total Semester Hours **120** ~~121-122~~

~~Other Teaching Fields~~
~~(Grades 8-7-12)~~

~~Students desiring certification in the teaching field of French (all level) need to confer with the Chair of the Foreign Language Department.~~

~~French - 26 hours~~
~~FREN 1134, 1234, 2133, 2233, 3133, 3233, 3333, 4013.~~

~~BUSINESS~~

~~Bachelor of Business Administration with Teacher Certification~~

~~Academic Foundations and Core Curriculum 47 hours~~
~~plus additional requirements~~

~~ENGL 1113, 1123 6~~

~~SPCH 1133 or 2423 3~~
~~HIST 1133, 1233 6~~
~~POLS 1333, 1433 6~~
~~Natural Sciences - two laboratory courses 6~~
~~MATH 1233 or 1203 3~~
~~MIS 2003 3~~
~~Humanities 6~~
~~Fine Arts - 3 hours from art, music, or theatre, or MCOM 2213 3~~
~~SOCL 1133 or PSYC 1103 3~~
~~EXPH - 2 activity courses 2~~

~~Major in General Business 51 hours~~

~~ACCT - 2143 - Financial Accounting 3~~
~~ACCT - 2243 - Managerial Accounting 3~~
~~BUAD - 1033 - Foundations of Business 3~~
~~BUAD - 3033 - Business and Economic Statistics 3~~
~~BUAD - 3323 - Business Ethics 3~~
~~ECON - 2333 - Macroeconomics Principles 3~~
~~ECON - 2433 - Microeconomic Principles 3~~
~~FINC - 3733 - Business Finance 3~~
~~LSBA - 3233 - Legal Environment of Business 3~~
~~MGMT - 3013 - Organizational Behavior in Business 3~~
~~MGMT - 3453 - Operations Management 3~~
~~MGMT - 4853 - Strategic Management 3~~
~~MIS - 3003 - Management Information Systems 3~~
~~MKTG - 3723 - Principles of Marketing 3~~
~~Choose 9 hours from the following: 9~~
- ~~ACCT - 3003 - Accounting Applications~~
- ~~ECON - 3323 - Intermediate Macroeconomics~~
- ~~ECON - 3333 - Intermediate Microeconomics~~
- ~~ECON - 4723 - Comparative Economic Systems~~
- ~~FINC - 3353 - Financial Markets and Institutions~~
- ~~LSBA - 3243 - Commercial Law~~
- ~~MGMT - 4213 - Human Resource Management~~
- ~~MGMT - 4613 - Supervisory Management~~
- ~~MIS - 3203 - Electronic Commerce~~
- ~~MKTG - 3763 - Professional Selling~~

~~Professional Education for Secondary Certification 23 hours~~

~~EDUC - 2013 - School and Society 3~~
~~EDUC - 3153 - Educational Psychology 3~~
~~EDUC - 3162 - Classroom Management 2~~
~~EDUC - 4113 - Planning and Assessment for Secondary Education and All-Level 3~~
~~EDUC - 4466 - Student Teaching in the Secondary School 6~~
~~READ - 4273 - Content Reading 3~~
~~SPED - 3613 - Exceptional Individuals 3~~

~~Total Semester Hours 121~~

All-Level Teaching Fields

All-Level Certification is available in five disciplines for students who wish to teach grades EC - 12.

BFA:	Art All-Level	BM:	Music All-Level
BA:	Kinesiology All-Level	BA:	Spanish All-Level
BS:	Kinesiology All-Level	BFA:	Theatre All-Level

ART

Bachelor of Fine Arts with Teacher Certification
Art All-Level

The Bachelor of Fine Arts degree with teacher certification is a studio-intensive program that prepares students to teach art at all levels (K-12) in public and private educational institutions.

Academic Foundations and Core Curriculum~~, plus additional requirements 50~~ **42** hours

EDUC 2013	**3**
ENGL/SPCH 1103	**3**
ENGL ~~1113,~~ 1123	~~6~~ **3**
~~SPCH 1133, 1233, or 2423~~	~~3~~
HIST 1133, 1233	6
POLS 1333, 1433	6
~~Natural Sciences - two laboratory courses~~	~~6~~
Life/Physical Sciences	**6**
MATH 1233	3
~~Fine Arts – ART 1113~~	~~3~~
~~Humanities – ART 3413, 3423~~	~~6~~
Creative Arts (Choose one) **MCOM 2213, MUC 1033, or MUSC 2733**	**3**
Language Philosophy and Culture (Choose one) **ENGL 2413, 2613, HIST 1333, 1433, PHIL 1033, 2033**	**3**
CAO Undergraduate Inquiry & Creativity (Choose one) **BUAD 1033, MCOM 2833, SCIE 2103**	**3**
SOCL 1133 or PSYC 1103	3
~~ECON 1333 or 2333 or 2433~~	~~3~~
~~Exercise Physiology (2 different activity courses or one semester of marching band and 1 activity, or two semesters of marching band)~~	~~2~~
~~ART 1333~~	~~3~~

Major in Art ~~63~~ **66** hours

ART 1113~~*~~, 1123 2-D Design and 3-D Design	6
ART 1313, 1323 Drawing I and II	6
ART 1333 Computers for Artists	**3**
ART 2013 Photography I	3
ART 2153 Printmaking I	3
ART 2313 Painting I	3
ART 2523 Sculpture I	3
ART 2613 Ceramics I	3
ART 2813 Metals I	3
~~ART 4303 Foundations of Art Education I~~	~~3~~
~~ART 4403 Foundations of Art Education II~~ ~~(must be taken concurrently with EDUC 3162)~~	~~3~~
ART 3413~~*~~, 3423~~*~~ History of World Art I and II	6
ART 4303, 4403 Foundations of Art Education I and II	**6**
~~Art History Elective (non-Western)~~	~~3~~
~~Art History Elective~~	~~3~~
ART 4923 Senior Exhibition	3
Art History Elective	**3**
Art History Elective (non-Western)	**3**
Studio Area (~~12 hours – 6 hours of three-dimensional and 6 hours of two-dimensional studio classes):~~ **(12 hours of any one studio area)**	12

~~Three-Dimensional:~~

ART 3523, 3533, 4553**, 4563** - Sculpture
ART 3603, 3613, 4603**, 4613** - Ceramics
ART 3813, 3823, 4813**, 4823** - Metals

~~Two-Dimensional:~~

ART 3303, 3323, 4313**, 4323** - Painting
ART 3143, 3153, 4143**, 4153** - Printmaking

ART 3013, 3023, 4013**, 4023** - Photography
ART 3703, 3713, 4703**, 4713** - Graphic Design
ART 3213, 4213, 4223**, 4233** - Drawing
~~ART 4113, 4123 Photography in Great Britain~~
~~ART 4163 Domestic/International Field Study~~
~~ART 4513 Exhibition and Presentation Methods~~
~~ART 4543 Topics in Studio Art~~
~~ART 4933 Visual Arts Apprenticeship~~

~~*9 hours are duplicated in Academic Foundations and Core Curriculum but the total program hours do not change.~~

Professional Education for Secondary Certification ~~23~~ **21** hours

~~EDUC~~	~~2013~~	~~School and Society~~	~~3~~
~~EDUC~~	**EPSY** 3153	Educational Psychology	3
EDUC	~~3162~~ **3163**	Classroom Management	~~2~~ **3**
		~~(must be taken concurrently with ART 4403)~~	
EDUC	4166	Student Teaching	6
READ	4273	Content Reading	3
SPED	3613	Exceptional Individuals	3
ART	4403*	Foundations of Art Education II	3
		~~(must be taken concurrently with EDUC 3162)~~	

*3 hours are duplicated in Major but the total program hours do not change.

Total Semester Hours ~~124~~ **126**

KINESIOLOGY

Bachelor of Arts with Teacher Certification
(Grades EC-12, All-Level)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~44~~ **43** hours

EDUC 2013 **3**
ENGL/SPCH 1103 **3**
ENGL ~~1113,~~ 1123 ~~6~~ **3**
~~6 hours sophomore literature~~ ~~6~~
~~SPCH 1133 or 2423~~ ~~3~~
MATH 1233 3
~~BIOL 1134~~ ~~4~~
~~BIOL 1144 or 1234 or 1544~~ ~~4~~
BIOL 1133 and 1233 **6**
HIST 1133, 1233 6
POLS 1333, 1433 6
SPAN 1134 **4**
~~Fine~~ **Creative** Arts (art, music, theatre) or MCOM 2213 3
Choose 3 hours from the following courses: 3
PSYC 1103 General Psychology
SOCL 1133 Introduction to Sociology
ECON 1333 General Economics
ECON 2333 Macroeconomics
~~ECON 2433 Microeconomics~~
CAO Undergraduate Inquiry & Creativity **3**

Additional General Requirements ~~17~~ **16** hours

~~EDUC 1023 or demonstrate computer proficiency through department exam.~~ ~~3~~
Foreign Language - 2 years of ~~one foreign language~~ **Spanish** ~~14~~ **10**
(SPAN 1234, 2133 AND 2233)

6 hours of Sophomore Literature or Humanities **6**

Major in Kinesiology ~~33~~ **24** hours

~~ATRN 1073 Care and Prevention of Athletic Injuries 3~~
~~EXPH 2503 Physiology of Sport and Fitness 3~~
KNES 1503 Concepts of Fitness and Wellness 3
KNES 2423 Techniques & Strategies of Fitness & Conditioning 3
~~KNES 3323 Coaching Theory & Practice 3~~
~~KNES 3333 Outdoor Education 3~~
~~KNES 3353 Officiating 3~~
KNES 3363 Motor Skill Acquisition and Analysis 3
KNES 3513 Scientific Foundations 3
~~KNES 3423* Team Sports 3~~
~~KNES 3433* Individual and Dual Sports 3~~
~~KNES 4033 Sport and Exercise Psychology 3~~
KNES 4663 Fundamentals of Elementary Physical Education 3
KNES 4693 Fundamentals of Secondary Physical Education 3
Choose 6 hours from the following courses: 6
KNES 2403 Techniques & Strategies of Team Sports
KNES 2413 Techniques & Strategies of Individual/Dual Sports
KNES 2433 Tech & Strategies of Adventure & Outdoor Activities

~~*Meets 2 activities requirement for core.~~

Other Emphasis Area ** **6**
6 hours for History emphasis – HIST 3003 and HIST 4433 OR
6 hours for English emphasis – ENGL 3503 and ENGL 3513

****B.A. must select HIST or ENGL**

Professional Education for All-Level Certification ~~23~~ **24** hours

~~EDUC 2013 School and Society 3~~
~~EDUC 3153 Educational Psychology (Block 1) 3~~
KNES 3603 Assessment in Physical Education 3
KNES 4513 Adapted Physical Activity ~~(Block 1)~~ 3
EDUC ~~3162~~ **3163** Classroom Management ~~(Block 2)~~ ~~2~~ **3**
EDUC 4073 (Teach Meth. In Math) or EDUC (Teach Meth. In Science) 3
ETEC 4003 Advanced Technology 3
~~EDUC 4113 Planning and Assessment for Secondary Education and All-Level (Block 2) 3~~
EDUC 4166 Student Teaching 6
READ 4273 Content Reading 3

Other Requirements **6**

COUN 2143 Human Diversity 3
EPSY 3153 Educational Psychology 3

Elective ~~3~~ **1** hour~~s~~

Total Semester Hours 120

KINESIOLOGY

Bachelor of Science with Teacher Certification
(Grades EC-12, All-Level)

Academic Foundations and Core Curriculum~~, plus additional requirements~~ ~~47~~ **42** hours

EDUC 2013	**3**
ENGL/SPCH 1103	**3**
ENGL ~~1113,~~ 1123	~~6~~ **3**
~~6 hours sophomore literature or humanities~~	~~6~~
~~SPCH 1133 or 2423~~	~~3~~
MATH 1233~~; 1433 or STAT 3573~~	~~6~~ **3**
~~BIOL 1134~~	~~4~~
~~BIOL 1144 or 1234 or 1544~~	~~4~~
BIOL 1133 and 1233	**6**
HIST 1133, 1233	6
POLS 1333, 1433	6
~~Fine~~ **Creative** Arts (art, music, theatre) or MCOM 2213	3
Choose 3 hours from the following courses:	3
PSYC 1103 General Psychology	
SOCL 1133 Introduction to Sociology	
ECON 1333 General Economics	
ECON 2333 Macroeconomics	
~~ECON 2433 Microeconomics~~	
Language Philosophy and Culture (ENGL, HIST, PHIL, or LANG)	**3**
CAO Undergraduate Inquiry & Creativity – SCIE 2103	**3**

Additional General Requirements 11 hours

MATH 1433	**3**
Sciences – two laboratory courses of the same discipline (GEOS/CHEM/PHYS)	**8**
(Must be CHEM 1143/1141 and CHEM 1243/1241 for Science emphasis)	
~~EDUC 1023 or demonstrate computer proficiency through department exam.~~	~~3~~
~~Sciences - two laboratory courses of same discipline - not biology~~	~~8~~

Major in Kinesiology ~~33~~ **24** hours

~~ATRN 1073 Care and Prevention of Athletic Injuries~~	~~3~~
~~EXPH 2503 Physiology of Sport and Fitness~~	~~3~~
KNES 1503 Concepts of Fitness and Wellness	3
KNES 2423 Techniques & Strategies of Fitness & Conditioning	**3**
~~KNES 3323 Coaching Theory & Practice~~	~~3~~
~~KNES 3333 Outdoor Education~~	~~3~~
~~KNES 3353 Officiating~~	~~3~~
KNES 3363 Motor Skill Acquisition and Analysis	3
KNES 3513 Scientific Foundations	**3**
~~KNES 3423* Team Sports~~	~~3~~
~~KNES 3433* Individual and Dual Sports~~	~~3~~
~~KNES 4033 Sport and Exercise Psychology~~	~~3~~
KNES 4663 Fundamentals of Elementary Physical Education	3
KNES 4693 Fundamentals of Secondary Physical Education	**3**
Choose 6 hours from the following courses:	**6**
KNES 2403 Techniques & Strategies of Team Sports	
KNES 2413 Techniques & Strategies of Individual/Dual Sports	
KNES 2433 Tech. & Strategies of Adventure & Outdoor Activities	

~~*Meets 2 activities requirement for core.~~

Other Emphasis Area – Math OR Science** **11-12**

MATH 1634, 1734, and 2133 OR
GEOL 1134, 1234, and GNSC 3104

****B.S. must select MATH or SCI**

Professional Education for All-Level Certification ~~23~~ **24** hours

~~EDUC 2013 School and Society 3~~
~~EDUC 3153 Educational Psychology (Block 1) 3~~
KNES 3603 Assessment in Physical Education 3
KNES 4513 Adapted Physical Activity ~~(Block 1)~~ 3
EDUC ~~3162~~ **3163** Classroom Management ~~(Block 2)~~ ~~2~~ **3**
EDUC 4073 Teach Meth. in Math or READ 4083 (Teach Meth in Science) **3**
ETEC 4003 Advanced Technology 3
~~EDUC 4113 Planning and Assessment for Secondary Education and All-Level (Block 2) 3~~
EDUC 4166 Student Teaching 6
READ 4273 Content Reading 3

Other Requirements 6 hours

COUN 2143 Human Diversity 3
EPSY 3153 Educational Psychology 3

Electives ~~6~~ **1 or 2** hours
Under Other Emphasis Area:
Two courses from EXPH options for Math 2
OR
One course from EXPH options for Science 1

Total Semester Hours 120

MUSIC

Bachelor of Music with Teacher Certification
Music All-Level, Vocal Emphasis

The Bachelor of Music degree with teacher certification focuses on preparing students for careers in music education and for certification by the Texas Board of Education (K-12, all-area).

Academic Foundations and Core Curriculum**, plus additional requirements** ~~47~~ **42** hours

EDUC 2013 3
ENGL/SPCH 1103 3
ENGL ~~1113,~~ 1123 ~~6~~ **3**
~~SPCH 1133, 1233, or 2423 3~~
HIST 1133, 1233 6
POLS 1333, 1433 6
~~Natural Sciences - two laboratory courses 6~~
MATH 1233 3
Life/Physical Science 6
~~Fine~~ **Creative** Arts – MUSC ~~1603~~ **2733** 3
~~Humanities – MUSC 3733, 3743 6~~
~~SOCL 1133 or~~ PSYC 1103 3
Language Philosophy and Culture 3
CAO Undergraduate Inquiry & Creativity 3
~~ECON 1333 or 2333 or 2433 3~~
~~Exercise Physiology (2 different activity courses or one semester of marching band and 1 activity, or two semesters of marching band) 2~~

~~Computer Competency Requirement 3 hours~~

~~EDUC 1023 or demonstrate computer proficiency through department exam. 3~~

Major in Music ~~64-68~~ **65** hours

MUSC 1601, 1603~~*~~ Elem Sight-Singing & Ear Training/Music Theory I	4
MUSC 1611, 1613 Elem Sight-Singing & Ear Training/Music Theory II	4
MUSC 2603 Music Theory III	3
MUSC 2613 Music Theory IV	3
MUSC 3632 Analysis of Musical Form	2
MUSC 3662 Orchestration	2
~~MUSC 3733* Western and World Music I~~	~~3~~
MUSC 3743~~*~~ Western and World Music II	3
MUSC 3753 Western and World Music III	3
MUSC 4843 Basic Conducting	3
MUSC 4863 Choral Conducting	3
MUSC 3893 Music Technology	3
MUSC 3141 Woodwind Instruments Class	1
MUSC 3161 Brass Instruments Class	1
MUSC 3181 String Instruments Class	1
MUSC 3291 Percussion Instruments Class	1
MUSC 4823 Foundations of Music II	3
MUSC 4873 Foundations of Music III	3
~~(must be taken concurrently with EDUC 3162)~~	
AMUS 1201, 2201, 3201**, 4201** Voice (2 semesters at 1000-level;	**7**
2 semesters at 2000-level; 2 semesters at 3000-level~~);~~	~~6~~
1 semester at 4000-level)	
AMUS 4961 Senior Recital	1
~~MUSC 1001, 2001, 3001, 4001~~ **AMUS 1201, 2201, 3201, 4201**	**7**
University Singers (2 semesters at 1000-level;	
2 semesters at 2000-level; 2 semesters at 3000-level;	
1 semester at 4000-level)	
MUSC 1000 Recital Attendance (7 semesters)	0
MUSC 1211, 1221 Diction I and II	2
MUSC 3862 Choral Literature	2
Piano Proficiency ~~(sufficient hours to pass proficiency examination): 0-4~~	**3**
MUSC 1111/1121, AMUS 1231 ~~Beginning Piano/Piano Class/Piano Proficiency~~	

~~*9 hours are duplicated in Academic Foundations and Core Curriculum but the total program hours do not change.~~

Professional Education for All-Level Certification ~~23~~ **21** hours

~~EDUC~~	~~2013~~	~~School and Society~~	~~3~~
EDUC	3153	Educational Psychology	3
SPED	3613	Exceptional Individuals	3
EDUC	316~~2~~**3**	Classroom Management	~~2~~ **3**
		(must be taken concurrently with MUSC 4873)	
READ	4273	Content Reading	3
EDUC	4166	Student Teaching	6
MUSC	4873*	Foundations of Music III	3
		(must be taken concurrently with EDUC ~~3162~~ **3163**)	

*3 hours duplicated in Major but does not change total program hours.

Total Semester Hours ~~125-129~~ **125**

MUSIC

Bachelor of Music with Teacher Certification
Music All-Level, Instrumental Emphasis

The Bachelor of Music degree with teacher certification focuses on preparing students for careers in music education and for

certification by the Texas Board of Education (K-12, all-area).

Academic Foundations and Core Curriculum**, plus additional requirements** ~~47~~ **42** hours

EDUC 2013	**3**
ENGL/SPCH 1103	**3**
ENGL ~~1113,~~ 1123	~~6~~ **3**
~~SPCH 1133, 1233, or 2423~~	~~3~~
HIST 1133, 1233	6
POLS 1333, 1433	6
~~Natural Sciences - two laboratory courses~~	~~6~~
MATH 1233	3
Life/Physical Science	**6**
~~Fine~~ **Creative** Arts – MUSC ~~1603~~ **2733**	3
~~Humanities – MUSC 3733, 3743~~	~~6~~
~~SOCL 1133 or~~ PSYC 1103	3
Language Philosophy and Culture	**3**
CAO Undergraduate Inquiry & Creativity	**3**
~~ECON 1333 or 2333 or 2433~~	~~3~~
~~Exercise Physiology (normally met by 2 semesters of marching band)~~	~~2~~

~~Computer Competency Requirement 3 hours~~

~~EDUC 1023 or demonstrate computer proficiency through department exam. 3~~

Major in Music ~~61-65~~ **62** hours

MUSC 1601, 1603~~*~~ Elem Sight-Singing & Ear Training/Music Theory I	4
MUSC 1611, 1613 Elem Sight-Singing & Ear Training/Music Theory II	4
MUSC 2603 Music Theory III	3
MUSC 2613 Music Theory IV	3
MUSC 3632 Analysis of Musical Form	2
MUSC 3662 Orchestration	2
~~MUSC 3733* Western and World Music I~~	~~3~~
MUSC 3743~~*~~ Western and World Music II	3
MUSC 3753 Western and World Music III	3
MUSC 4843 Basic Conducting	3
MUSC 4853 Instrumental Conducting	3
MUSC 3893 Music Technology	3
MUSC 3141 Woodwind Instruments Class	1
MUSC 3161 Brass Instruments Class	1
MUSC 3181 String Instruments Class	1
MUSC 3281 Voice Class	1
MUSC 3291 Percussion Instruments Class	1
MUSC 4823 Foundations of Music II	3
MUSC 4873 Foundations of Music III	3
~~(must be taken concurrently with EDUC 3162)~~	
Applied Music (2 semesters at 1000-level; 2 semesters at 2000-level; 2 semesters at 3000-level**; 1 semester at 4000-level**)	~~6~~ **7**
AMUS 4961 Senior Recital	1
~~MUSC: Major Ensemble* (2 semesters at 1000-level; 2 semesters at 2000-level; 2 semesters at 3000-level; 1 semester at 4000-level)~~	~~7~~
Applied Music (2 semesters at 1000-level; 2 semesters at 2000-level; 2 semesters at 3000-level; 1 semester at 4000-level)	**7**
MUSC 1000 Recital Attendance (7 semesters)	0
Piano Proficiency ~~(sufficient hours to pass proficiency examination):~~	~~0-4~~ **3**
MUSC 1111~~,~~/1121, AMUS 1231 ~~Beginning Piano/Piano Class/Piano Proficiency~~	

~~*11 hours are duplicated in Academic Foundations and Core Curriculum but the total program hours do not change.~~

Professional Education for All-Level Certification ~~23~~ **21** hours

~~EDUC 2013 School and Society 3~~
~~EDUC~~ **EPSY** 3153 Educational Psychology 3
SPED 3613 Exceptional Individuals 3
EDUC ~~3162~~ **3163** Classroom Management ~~2~~ **3**
(must be taken concurrently with MUSC 4873)
READ 4273 Content Reading 3
EDUC 4166 Student Teaching 6
MUSC 4873* Foundations of Music III 3
(must be taken concurrently with EDUC ~~3162~~ **3163**)

*3 hours are duplicated in Major but the total program hours do not change.

Total Semester Hours ~~120 124~~ **122**

SPANISH

Bachelor of Arts with Teacher Certification
(Grades EC-12, All-Level)

Academic Foundations and Core Curriculum**, plus additional requirements** ~~47~~ **44** hours

EDUC 2013 **3**
ENGL/SPCH 1103 **3**
ENGL ~~1113,~~ 1123 ~~6~~ **3**
MATH 1233 3
~~Humanities - met by courses required in major (SPAN 1134/1234) 8~~
~~Sciences - two laboratory courses 6~~
HIST 1133, 1233 6
~~ECON 1333 or 2333 or 2433 3~~
POLS 1333, 1433 6
~~PSYC 1103 or SOCL 1133 3~~
~~SPCH 1133 or 2423 3~~
Life/Physical Science **6**
SPAN 1134, 1234 **8**
~~Fine~~ **Creative** Arts 3
Social and Behavioral Science **3**

Additional General Requirements ~~5~~ **13** hours

COUN 2143 Human Diversity **3**
EPSY 3153 Educational Psychology **3**
ECED 3173 ESL Methods and Materials **3**
4 Hours Electives **4**
~~EDUC 1023 or demonstrate computer proficiency through department exam. 3~~
~~EXPH 2 activity courses 2~~

Major in Spanish ~~38~~ **47** hours

SPAN 1134* Elementary Spanish I 4
SPAN 1234* Elementary Spanish II 4
SPAN 2133 Intermediate Spanish I 3
SPAN 2233 Intermediate Spanish II 3
SPAN 3013 ~~or 3023~~ Spanish Civilization ~~or Spanish American Civilization~~ 3
SPAN 3023 Spanish American Civilization **3**
SPAN 3003 Introduction to Hispanic Literature 3
SPAN 3133 Survey of Spanish Literature I **3**
SPAN 3233 Survey of Spanish Literature II **3**
SPAN 3333 Conversation and Composition 3
SPAN 3533 Survey of Spanish American Literature I **3**
SPAN 3633 Survey of Spanish American Literature II **3**
SPAN 4233 Adv. Grammar **3**

SPAN	4433	Advanced Comprehensive Skills	3
~~6 hours from: SPAN 3133, 3233, 3533, or 3633~~			~~6~~
SPAN	4133	~~or 4233~~ Advanced Oral Expression ~~or Advanced Grammar and Composition~~	3
~~3 hours SPAN electives~~			~~3~~

*8 hours are duplicated in Academic Foundations and Core Curriculum**, plus additional requirements** but the total program hours do not change.

Professional Education for All-Level Certification ~~23~~ **24** hours

~~EDUC~~	~~2013~~	~~School and Society~~	~~3~~
~~EDUC~~	~~3153~~	~~Educational Psychology~~	~~3~~
~~EDUC~~	~~3162~~	~~Classroom Management~~	~~2~~
EDUC	**3163**	**Classroom Management**	**3**
EDUC	**3183**	**Assessment**	**3**
EDUC	4113	Planning and Assessment for Secondary Education and All-Level	3
EDUC	4166	Student Teaching	6
ETEC	**4003**	**Advanced Technology**	**3**
READ	4273	Content Reading	3
SPED	3613	Exceptional Individuals	3

~~Minor 18 hours~~

Total Semester Hours ~~123~~ **120**

THEATRE

Bachelor of Fine Arts with Teacher Certification
(Grades EC-12, All-Level)

The purpose of the Bachelor of Fine Arts degree with teacher certification is to prepare the student to teach and produce theatre in primary, middle, or secondary school settings.

Academic Foundations and Core Curriculum**, plus additional requirements**~~47~~ **42** hours

EDUC 2013	**3**
ENGL/SPCH 1103	**3**
ENGL ~~1113,~~ 1123	~~6~~ **3**
~~SPCH 1233~~	~~3~~
HIST 1133, 1233	6
POLS 1333, 1433	6
~~Natural~~ **Life/Physical** Sciences ~~– two laboratory courses~~	6
MATH 1233	3
~~Fine~~ **Creative** Arts – THEA ~~1403~~ **2423**	3
~~Humanities – THEA 2433, 2443~~	~~6~~
~~SOCL 1133 or PSYC 1103~~	~~3~~
ECON 1333~~, 2333, or 2433~~	3
Language Philosophy & Culture	**3**
CAO Undergraduate Inquiry & Creativity	**3**
~~Exercise Physiology (2 different activity courses or one semester of marching band and 1 activity, or two semesters of marching band)~~	~~2~~

~~Computer Competency Requirement 3 hours~~

~~EDUC 1023 or demonstrate computer proficiency through department exam. 3~~

Other Requirements **3**

EPSY 3153 Educational Psychology **3**

NOTE: A grade of D will not be accepted to meet requirements for the Theatre Core or Additional Theatre Requirements.

~~Theatre Core Requirements~~ **Major in Theatre** ~~39~~ **58** hours

~~SPCH~~	~~1233*~~	~~Voice and Diction~~	~~3~~
THEA	1121	Rehearsal and Production I (2 semesters of enrollment)	2
THEA	**1233**	**Voice for Theatre**	**3**
THEA	1403~~*~~	Introduction to Acting	3
THEA	1513	Stagecraft	3
THEA	1613	Performance Makeup	3
THEA	**2113**	**Stage Movement**	**3**
THEA	2121	Rehearsal and Production II (2 semesters of enrollment)	2
THEA	2433~~*~~	Theatre History I	3
THEA	2443~~*~~	Theatre History II	3
THEA	3003	Contemporary Theatre	3
THEA	3013	Costume Construction	3
THEA	3121	Advanced Rehearsal and Production I (2 semesters of enrollment)	2
THEA	**3143**	**Stage Movement**	**3**
THEA	**3393**	**Advanced Acting**	**3**
~~THEA~~	~~3423~~	~~Script Analysis~~	~~3~~
THEA	3433	Principles of Directing	3
THEA	**3473**	**Performance Lighting**	**3**
THEA	**3493**	**Performance Sound**	**3**
THEA	**4121**	**Advanced Rehearsal and Production I**	**1**
THEA	4483	Collaborative Play Production	3
6 Hours THEA Electives			**6**

~~*12 hours are duplicated in Academic Foundations and Core Curriculum but the total program hours do not change.~~

~~Additional Theatre Requirements 24 hours~~

~~THEA 2113 Stage Movement 3~~
~~THEA 3143 Stage Management 3~~
~~THEA 3393 Advanced Acting 3~~
~~THEA 3473 Performance Lighting 3~~
~~THEA 3493 Performance Sound 3~~
~~THEA 4513 Advanced Project in Performance OR 3~~
~~THEA 4523 Advanced Project in Design/Technology~~
~~Selective Courses - 6 hours from: 6~~
~~THEA 3353 Theatre Graphics~~
~~THEA 4363 Scene Design~~
~~THEA 4373 Costume Design~~
~~THEA 4213 Voice for the Theatre and Dialects~~
~~THEA 4223 Period Style and Movement~~

Education Requirements ~~23~~ **21** hours

~~EDUC~~	~~2013~~	~~School and Society~~	~~3~~
~~EDUC~~	~~3153~~	~~Educational Psychology~~	~~3~~
EDUC	**3163**	**Classroom Management**	**3**
EDUC	**3183**	**Assessmenet**	**3**
SPED	3613	Exceptional Individuals	3
~~EDUC~~	~~3162~~	~~Classroom Management~~	~~2~~
EDUC	4113	Planning and Assessment for Secondary Education and All-Level	3
EDUC	4166	Student Teaching	6
READ	4273	Content Reading	3

Total Semester Hours: 124

COURSES IN BILINGUAL EDUCATION (EDBE)

4203. Implementation of EC-6 Dual Language Curriculum Models 3(3-0)

Course addresses programmatic, cultural, academic and linguistic considerations for the creation, implementation and maintenance of dual language curriculum models in EC-6 settings. In this course students will explore and implement various research-based teaching methods and strategies used in effective programs. It will also cover key components of dual language teaching and learning, including curriculum alignment (e.g., horizontal, vertical, spiral), language separation, and parent collaboration.

4333. ~~Assessment in Bilingual Education~~ **Bilingual Methods and Assessment** 3(3-0)

~~Methods of assessing oral and written language and reading to plan and implement literacy instruction in the bilingual classroom.~~ **Curriculum, methods, materials, and assessment for bilingual education including instructional techniques, materials, evaluations, classroom management, and methods of assessing oral and written language.**

COURSES IN COUNSELING (COUN)

2023. Human Development (TCCNS = TECA 1354) 3(3-0) **(KEEP IN INVENTORY)**

A study of the principles of normal child growth and development from conception through adolescence. Focus on physical, cognitive, social, moral, and emotional domains of development.

2143. Human Diversity 3(2-2)

A study of individual, family, and cultural community diversity. Field experience required.

COURSES IN EDUCATION (EDUC)

~~1023. Computer Applications for Education 3(2-2)~~

~~Experience organizing and manipulating data with computers, including hands-on experience with word processing, databases, spreadsheets, graphics, desktop publishing, and graphing. Focus on computer applications for classroom including hardware and software selection, computer environments, telecommunications, and ethics.~~

~~3153. Educational Psychology 3(2-2)~~

~~Prerequisites: COUN 2023, EDUC 2013.~~

~~Concepts of learning theory and applications, motivation, and measurement and evaluation. Field experience arranged through the instructor.~~

3162. Classroom Management (~~former EDUC 3163)~~ 2(1-2)

Prerequisites: EDUC 2013 and COUN 2143

~~Co-requisites: Must have concurrent enrollment in EDUC 4102, 4202, 4302; or 4113.~~

The management of the classroom to optimize student learning. The development of such management skills as active listening, reality therapy, and conflict resolution.

3163. Classroom Management 3(2-2)

The management of the classroom to optimize student learning. The development of such management skills as active listening, reality therapy, and conflict resolution.

3183. Classroom Assessment 3(3-0)

This course introduces students to the competencies needed to construct reliable and valid objective classroom assessments. In addition, students will be introduced to formats and options for authentic assessments and the role of technology in designing and analyzing data from various types of assessments. Finally, students will become familiar with the utilization of reliable and valid data obtained from assessments to guide instructional decisions for all students, collectively or individually, in the classroom.

4033. Teaching Social Studies in Elementary School (former EDUC 4302) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

Co-requisite: EDUC 4043, 4053, ETEC 4003

Assessment and models of instructional planning in social studies, emphasis on learning with technology and the models of instruction. Field experience required.

4043. Teaching Math in Elementary School (former EDUC 4202) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

Co-requisite: EDUC 4033, 4053, ETEC 4003

Assessment and models of instructional planning in math, emphasis on learning with technology and the models of instruction. Field experience required.

4053. Teaching Science in Elementary School (former EDUC EDUC 4102) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

Co-requisite: EDUC 4033, 4053, ETEC 4003

Assessment and models of instructional planning in science, emphasis on learning with technology and the models of instruction. Field experience required.

4063. Teaching Methods in Social Studies (Middle & High School) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

This field based, 3-credit course focuses on middle and secondary school social studies pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design. Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.

4073. Teaching Methods in Mathematics (Middle & High School) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

This field based, 3-credit course focuses on middle and secondary school mathematics pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design. Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.

4083. Teaching Methods in Science (Middle & High Schol) 3(2-2)

Prerequisites: Admission to the teacher education program; EPSY 3153 and SPED 3613

This field based, 3-credit course focuses on middle and secondary school science pedagogy with emphasis on instructional strategies and models, the use of technology in the learning/teaching process, effective practices, professionalism, curriculum, and lesson design. Different teaching strategies include: appropriate use of creative approaches to the learning/teaching process, cooperative learning, direct instruction, inquiry, concept attainment, etc.

No changes until…

4113. Planning and Assessment for Secondary Education and All-Level 3(3-0)

Prerequisite: ~~EDUC~~ **EPSY** 3153 or concurrent enrollment.

~~Co-requisite: Must have concurrent enrollment in EDUC 3162.~~

Models of instructional planning and assessment strategies for teaching in the secondary schools with emphasis on learning with technology.

~~4173. Student Teaching, Elementary All-Level 3 semester hours~~

~~Prerequisites: Senior standing and approval of the dean.~~

~~Teaching art, music, or physical education under supervision in a public elementary school; meets full day for six weeks, including orientation; orientation and supervision by college instructor.~~

~~4183. Student Teaching in Early Childhood and Kindergarten 3 semester hours~~

~~Prerequisites: Completion of 6 hours of early childhood course work, senior standing, and approval of the dean.~~

~~Student teaching for early childhood and kindergarten endorsement; meets full day for six weeks.~~

No changes until…

~~4466. Student Teaching in the Secondary School 6 semester hours~~

~~Prerequisites: Senior standing and approval of the dean.~~

~~Teaching under supervision in a public secondary school; meets full day for twelve weeks, including orientation; orientation and supervision by college instructor.~~

~~4473. Student Teaching, Secondary All-Level 3 semester hours~~

~~Prerequisites: Senior standing and approval of the dean.~~

~~Used only when all-level students desire secondary certification in a minor; teaching under supervision in a public secondary school; meets full day for six weeks, including orientation; orientation and supervision by college instructor.~~

COURSES IN EDUCATIONAL TECHNOLOGY (ETEC)

4003. Advanced Technology Integration (formerly EDUC 1023) 3(3-0)

This course prepares undergraduate students to use suites of digital media and communication tools that support the development of technological pedagogical content knowledge. Students will develop learning experiences that incorporate new technologies that are developed in collaboration with method course instructors, or other instructors.

COURSES IN EDUCATIONAL PSYCHOLOGY (EPSY)

3153. Educational Psychology (formerly EDUC 3153) 3(2-2)
Concepts of learning theory and applications, motivation, and measurement and evaluation. Field experience arranged through the instructor.

COURSES IN READING EDUCATION (READ)

4203. Developmental Reading 3(2-2)
Prerequisites: ~~EDUC~~ **EPSY** 3153, ~~3162, 4102, 4202, and 4302.~~ **EDUC 4033, 4043, 4053, ETEC 4003**
Co-requisite: READ 4213.
Literacy theory and developmental stages of literacy. Planning and organizing for scientifically-based reading instruction including: phonological/phonemic awareness, phonics, comprehension, vocabulary, and fluency.

4213. Methods of Teaching Reading and the Language Arts 3(2-2)
Prerequisites: ~~EDUC~~ **EPSY** 3153, ~~3162, 4102, 4202, and 4302.~~ **EDUC 4033, 4043, 4053, ETEC 4003**
Co-requisite: READ 4203.
Planning and organizing for the integrated teaching of scientifically-based reading and language arts (i.e., listening, talking, reading, writing, viewing, visually representing) instruction within the context of the content areas.

4253. Secondary Reading and Language Arts 3(3-0)
Prerequisite: ~~EDUC~~ **EPSY** 3153.
Methods for designing and implementing instruction that integrates all components of the English language arts (writing, reading, listening/speaking, viewing/representing).

4273. Content Reading 3(3-0)
Prerequisite: ~~EDUC~~ **EPSY** 3153 or concurrent enrollment.
Strategies and materials for assessing students' content reading needs; instructional techniques and modifications for engaging students in content subjects.

KINESIOLOGY

MISSION STATEMENT FOR THE KINESIOLOGY PROGRAM

The Kinesiology Program offers degree options designed to prepare students for a variety of career opportunities in ~~physical activity and sport and leisure services~~ **physical education, sport, recreation, and leisure services**. The courses and experiences offered enable graduates to successfully enter teaching, coaching, leadership, and supervisory positions in school and community-based settings~~. B.A. and B.S. degrees are available for students seeking teacher certification in kinesiology. B.A. and B.S. degrees with a major in Sport and Leisure Studies are offered to students pursuing leadership and supervisory positions in sport, recreation, and leisure services.~~ **B.A. and B.S. degrees are offered in Kinesiology-Teacher Certification and in Sport and Leisure Studies.**

KINESIOLOGY MAJOR

BACHELOR OF ~~SCIENCE~~ **ARTS** and BACHELOR OF ~~ARTS~~ **SCIENCE**
Teacher Certification

The requirements for the Bachelor of Arts and Bachelor of Science degrees with a major in ~~kinesiology~~ **Kinesiology** are as follows:

~~See pages 154-155 in the Education section for specific course requirements in Academic Foundations and Core Curriculum, Bachelor of Science and Bachelor of Arts requirements, and teacher certification requirements.~~

General (see page ___)
Academic Foundations and Core Curriculum (see page___)
Bachelor of Arts (see page ___)
Bachelor of Science (see page ___)

Program

Major (~~33~~ **24** semester hours)
KNES 1503, 2423, 6 hrs from 2403 or 2413 or 2423,3513, 3363, 4663, and 4693
~~ATRN 1073, EXPH 2503, KNES 1503, 3323, 3333, 3353, 3363, 3423, 3433, 4033, 4663~~

~~Additional General Requirements (3 semester hours)~~
~~EDUC 1023, CMPS 1013, or 1033, or demonstrate computer proficiency through department exam.~~

Teacher Certification in Kinesiology
The requirements for a Bachelor of Arts degree with Grades EC-12, All-Level Certification in Kinesiology are found on page ____. The requirements for a Bachelor of Science degree with Grades EC-12,All-Level Certification in Kinesiology are found on page _____.

KINESIOLOGY MINOR

Emphasis I: Kinesiology (~~18~~ **21** semester hours)
~~KNES 1503, 3363, 3423, 3433, 4663, EXPH 2503~~
KNES 1503, 2423, 2403 or 2413, 3363, 3513, 4513, 4663 or 4693

Emphasis II: Coaching (~~18~~ **21** semester hours)
~~KNES 3323, 3353, 3363, 4033, ATRN 1073, EXPH 2503~~
KNES 1503, 2423, 2403 or 2413, 3323, 3353, 3513, 4033

Emphasis III: Recreation & Fitness (~~18~~ **21** semester hours)
~~KNES 1503, 3103, 3203, 3353, 4033, EXPH 2503~~
KNES 1503, 2423, 2433, 3203, 3353 or 4513, 3513, 4523

SPORT AND LEISURE STUDIES MAJOR

The requirements for the Bachelor of Arts degree and Bachelor of Science degree with a major in Sport and Leisure Studies are as follows:

General **Requirements** (see page ~~89~~)
Academic Foundations and Core Curriculum**, plus additional requirements** - ~~54-55-~~ **42** semester hours (See page ~~91~~)
Communications – 6 semester hours
Mathematics
BA – 3 semester hours
BS – MATH 1233
Life & Physical Science
BA – 6 semester hours
BS – BIOL 1133, 1233
Language, Philosophy & Culture
BA – FREN/GERM/SPAN 1134
BS – 3 semester hours
Creative Arts – 3 semester hours
HIST 1133, 1233
POLS 1333, 1433
Social & Behavioral Sciences – 3 semester hours
Cultural & Global Understanding
BA – FREN/GERM/SPAN 1234
BS – 3 semester hours
Inquiry & Creativity – 3 semester hours

Bachelor of Arts **Requirements** (See page ~~93~~)
Bachelor of Science **Requirements** (See page ~~93~~)

~~Major (56 semester hours for Bachelor of Arts and 57 semester hours for Bachelor of Science)~~
~~MWSU 1233; 2 (B.A.) or 3 (B.S.) semester hours of lower level activity credit beyond MSU core requirements (may include 1-, 2-, or 3-hour lower level activity oriented courses, EXPH 2002, KNES 2102, THEA 2122); 6 semester hours chosen from KNES 3103, 3333, 3423, 3433, THEA 3123; 3 semester hours of sociology beyond MSU core requirements (SOCL 1133 or 2233); KNES 1503, EXPH 2503, KNES 3203, 3353, 3363, 4033, 4973, SOCL 4133, 4233; 15 semester~~

~~hours of advanced electives approved by program coordinator (minimum of 9 semester hours must be discipline specific – for example Kinesiology, Exercise Science, Recreation and Leisure, Health, Athletic Training; a maximum of 6 semester hours may include such discipline related subjects as Education, Theatre, Mass Communication, Business, Management, Marketing)~~

Program

Major(37 semester hours)

MWSU 1233 or BUAD 1033; 1 semester hour EXPH Activity; KNES 1503, 2423; 3 semester hours chosen from KNES 2403, 2413, 2433; KNES 3203, 3513, 3603, 3363 or 4033, 4663 or 4693, 4513, 4523, 4973

Electives (0-12 semester hours)

Up to twelve semester hours of coursework from KNES or minor, depending on Degree (BA or BS) and selected minor.

Minor (18-21 semester hours)

Sport & Leisure Studies majors are required to complete one of the following Minors: Business Administration (see page __), Entrepreneurship (see page __), Criminal Justice (see page __), or Mass Communication (see page __). If circumstances warrant, an alternative minor may be allowed as approved by the Program Coordinator.

COURSES IN KINESIOLOGY (KNES)

~~1213. Concepts of Healthy Living 3(3-0)~~
~~Examination of the health status of children and the development of children's health beliefs and behaviors.~~

1214. Health, Fitness & Physical Activity for Children (formerly 1213) 4(3-2)
Examination of factors impacting the health status of children and the development of healthy, active lifestyle. Laboratory experiences will focus on incorporating elementary games and activities into the classroom, including those associated with physical fitness and personal safety. This course is limited to elementary education major.

1503. Concepts of Fitness and Wellness 3(3-0)
Examination of basic concepts and principles for improving and maintaining health and ~~well-being~~ **fitness** across the lifespan. ~~Assessment of physical fitness status is required, and individualized training and conditioning plans will be designed and implemented.~~

2102. Movement Activities for Children 2(1-2)
Instructionally and developmentally appropriate teaching skills and movement activities for children. ~~Designed to acquaint the student with~~ **Application with** practical knowledge and skills ~~leading to~~ **to integrate** a variety of games and activities for children. ~~Satisfies the exercise physiology activities requirement.~~

2403. Techniques & Strategies of Team Sports (formerly 3423) 3(3-0)
Introduction to selected team sport skill themes and activities. An emphasis on rules, skills, strategies and progressions.

2413. Techniques & Strategies of Individual/Dual Sports (formerly 3433) 3(3-0)
Introduction to selected individual/dual sport skill themes and activities. An emphasis on rules, skills, strategies and progressions.

2423. Technique & Strategies of Fitness and Conditioning Activities (formerly 3103) 3(3-0)
An introduction to lifetime fitness and conditioning activities emphasizing safe, effective and purposeful exercise. Activities include, but are not limited to, weight training and aerobics. Application of basic concepts and principles for improving and maintaining health and fitness across the lifespan.

2433. Techniques & Strategies of Adventure and Outdoor Activities (formerly 3333) 3(3-0)
Introduction to leisure activities emphasizing personal growth, leadership skills, and teamwork in outdoor recreational settings (i.e., mountain biking, orienteering, sailing, camping, rock climbing, and rappelling.)

~~3103. Fitness and Conditioning Activities 3(3-0)~~
~~Theory and practice course designed to prepare fitness instructors for commercial, educational, and clinical settings.~~

~~Satisfies the exercise physiology activities requirement.~~

3203. Program Planning in Recreation and Leisure Services 3(3-0)
Prerequisites: JR/SR standing; KNES 1503, 2423, and 2403 or 2413 or 2433
Exploration, discussion, and practical applications of topics and issues relevant to fitness, recreation, and leisure programs.

~~3333. Outdoor Education (formerly 4333) 3(3-0)~~
~~Introduction to leisure activities emphasizing personal growth, leadership skills, and teamwork in outdoor recreational settings (i.e., mountain biking, orienteering, sailing, camping, rock climbing, and rappelling).~~

3353. Officiating ~~(formerly 2353)~~ 3(3-0)
Rules of selected sports, their interpretation, and the mechanics of sports officiating. The course is designed to develop the skills and knowledge required for admission to the Southwest Officials Association in football, basketball, and other sports.

3363. Motor Skill Acquisition and Analysis ~~(formerly 2363)~~ 3(3-0)
Prerequisites: JR/SR standing and KNES 1503, 2423, and 2403 or 2413 or 2433
Developmental characteristics and biomechanical analysis of motor skills from initial fundamental motor patterns to application in physical activity and sport.

~~3423. Team Sports 3(3-0)~~
~~Introduction to selected team sports and activities. Rules, skills, strategies, progressions, and analysis techniques. Demonstration of skill competency and physical fitness status required. Satisfies the exercise physiology activities requirement.~~

~~3433. Individual and Dual Sports 3(3-0)~~
~~Introduction to selected individual/dual sports and activities. Rules, skills, strategies, progressions, and analysis techniques. Demonstration of skill competency and physical fitness status required. Satisfies the exercise physiology activities requirement.~~

3513. Scientific Foundations of Human Movement 3(3-0)
Prerequisites: JR/SR standing; KNES 1503, 2423, and 2403 or 2413 or 2433
Basic concepts and principles of anatomical kinesiology, biomechanics, and exercise physiology are introduced and applied to the study of motor skill acquisition and performance.

3603. Assessment in Physical Education 3(3-0)
Prerequisites: JR/SR standing and KNES 1503, 2423, and 2403 or 2413 or 2433
Comprehensive examination of the conceptual and theoretical aspects of assessment and evaluation in the field of physical education with an emphasis on developmentally appropriate assessment and program evaluation. Develop knowledge and skills necessary to conduct both process and product evaluations.

4033. Sport and Exercise Psychology 3(3-0)
Prerequisite: JR/SR standing
Introduction to the psychosocial dynamics involved in sport and exercise performance.

4513. Adapted Physical Activity 3(3-0)
Prerequisites: JR/SR standing; KNES 3513
Program development, instructional practices and modification of activities, equipment and facilities relative to persons with disabilities will be examined. Field experience required.

4523. Management & Administration in Recreation & Leisure Services 3(3-0)
Prerequisites: JR/SR standing; KNES 3203
Explores organizational management and administration issues related to recreation and leisure services.

4663. Fundamentals of Elementary Physical Education 3(2-2)
Prerequisites: JR/SR standing and KNES 1503, 2423, 2403 or 2413 or 2433, and 3603
Examination **and application of the instructional concepts and strategies** ~~of the principles and skills~~ associated with planning and implementing developmentally appropriate games and activities for school-age children. ~~Demonstration of skill competency and physical fitness status required.~~

4693. Fundamentals of Secondary Physical Education 3(2-2)
Prerequisites: JR/SR standing and KNES 1503, 2423, 2403 or 2413 or 2433, and 3603
Examination and application of the instructional concepts and strategies associated with the planning and implementing developmentally appropriate sports, games and activities for adolescents.

4973. Leadership in Recreation and Leisure Services 3(1-5)

Prerequisites: Senior standing, grade of C or better in **KNES 3203, 3513, 3603, 4513;** ~~EXPH 2503, KNES 3203, 3363, 4033, 4513, and~~ satisfaction of the Writing Proficiency Requirement (see page ~~90~~). **; approval of instructor and program coordinator.** ~~Proof of background check required prior to enrollment.~~

Structured learning experience designed for students to observe professionals in the field, demonstrate leadership and organizational skills, develop professional contacts, and accumulate practical experiences beneficial for employment and career advancement.

Undergraduate Course and Catalog Changes, effective Fall 2014

Per the Texas Education Agency (TEA), upcoming rule revisions include simplifying and cleaning up language. For example, the definition of student teaching has been removed and the idea of student teaching is now captured under the umbrella term of clinical teaching. The practice of student teaching remains, it's just that rule will now call it clinical teaching for simplicity's sake.

Change of Course Title:

EDUC 4163. ~~Student Teaching~~ **Clinical Teaching for EC-6/Bilingual Education Undergraduate Students**
EDUC 4166. ~~Student Teaching~~ **Clinical Teaching for Undergraduate Students**
EDUC 4263. ~~Student Teaching in Bilingual Classroom~~ **Clinical Teaching in Bilingual Classroom**

Deletion of Courses, effective Fall 2014

EDUC 4173. Student Teaching, Elementary All Level
EDUC 4183. Student Teaching in Early Childhood & Kindergarten
EDUC 4466. Student Teaching in the Secondary School
EDUC 4473. Student Teaching, Secondary All Level

4. Robert D. and Carol Gunn College of Health Sciences and Human Services

Athletic Training and Exercise Physiology

Undergraduate Catalog Changes:

ATHLETIC TRAINING and EXERCISE PHYSIOLOGY

Benito Velasquez, Chair (D.L. Ligon Hall 215)
Professor: Wyatt
Associate Professor: Velasquez
Assistant Professor: ~~Winchester~~
Instructors: Austin, ~~Carroll,~~ Diehm, Elder, Flores-Stafford, Haggerty, Johnson, **Jordan**, Linn, Lyons, Maskill, McGraw, Meachum, **Paige**, ~~Primavera~~, ~~Rawson~~, Ray, Reay, Renner, Rodriguez, Segler, **Snodgrass**, Styles, ~~Taylor~~, Tigert, Trimble, Wilkins
Professors Emeriti: Dudley, Gillespie, Henderson, Stockton

ATHLETIC TRAINING MAJOR

The Athletic Training ~~Education~~ Program is accredited by the Commission on Accreditation of Athletic Training Education Programs (CAATE).

The requirements for the Bachelor of Science in Athletic Training (BSAT) degree with a major in Athletic Training are as follows:

General (see page 89)
Academic Foundations and Core Curriculum (See page 91)

Major (60 semester hours)

ATRN **1171, 1173** ~~1073~~, 1203, 1211, 1213, **1313**, 2001, **2211, 2213**, 2433, 2901, 2903, 3001, 3101, 3103, 3331, 3801, 3803, 3811, 3813, 3901, 3913, 4001, 4123, 4423, 4801, 4903, and 4911
EXPH 1993, **3003**, 2333, ~~4703~~ **2503**, and **2501**
KNES 4033

Minor - no minor required.

Upon completion of this degree the student will be eligible to apply for the certification exam given by the national Board of Certification (BOC) and the Texas Athletic Training Licensure Exam administered by the Texas Department of State Health Services. **In order to receive the BOC certification and/or Texas AT Licensure students must submit proof of graduation and awarding of the BSAT degree.**

ADMISSION REQUIREMENTS

Students interested in Athletic Training should seek advisement from the **athletic training** ~~ATEP~~ **education program** faculty. The athletic training pre-professional program is open to any beginning freshman or transfer student who has been admitted to MSU. The pre-professional curriculum consists of a minimum of 24 hours including the following courses: ATRN **1171, 1173, 2211, 2213,** ~~1073~~ and BIOL 1134, plus an additional **12** ~~17~~ hours of coursework. It is highly suggested that **the additional 12 hours include:** ATRN 1203**,** and BIOL 1234**.** ~~are taken during the pre-professional year~~. **Every pre-professional student will be required to complete clinical observations as assigned by the AT clinical coordinator**. ~~A minimum of 100 hours of clinical observation is required of every pro-professional student.~~ Selection for admission into the professional phase of the **athletic training education program** ~~ATEP~~ is made in April. Selection ~~into the ATEP~~ is competitive and completion of the minimum requirements does not guarantee admission into the professional program **of athletic training.** To be considered for admission into the **AT program** ~~ATEP~~, the applicant must:

1. Maintain a cumulative 2.5 GPA*****.
2. Have completed a minimum of 24 hours of college course work including a "C" or better in ATRN 1173, 1171, **2211, 2213** ~~1073~~ and BIOL 1134.
3. Have documented **clinical** ~~a minimum of 100 hours of~~ observation under a Certified/Licensed Athletic Trainer.
4. **Submit the following to the Athletic Training Selection Committee: AT application, 3 letters of recommendation**~~,~~**.**
5. ~~Submit to the Vinson Health Center a technical standard worksheet and completed shot records.~~
3. ~~Submit the following to the Athletic Training Selection Committee: ATEP application, 3 letters of recommendation, documentation of technical standards, and proof of current CPR for professional health care provider and First Aid certification.~~
5. Complete an admissions interview with a committee composed of the Program Director, Clinical Education Coordinator, Head Athletic Trainer, Assistant Athletic Trainer, outside representative (faculty, **preceptor** ~~ACI, or CI~~), and an Athletic Training Student Representative currently in good standing with the program.
4. **Upon acceptance into the AT program, student must supply proof of current CPR for professional health care provider and First Aid certification, submission of completed shot records, physical exam, and technical standard documents.**

~~Due to the competitiveness of the program, not all applicants meeting the criteria will be selected for admission into the ATEP. Selection into the ATEP will be based on the following criteria:~~

~~1. Prerequisite Grades (ATRN 1171, 1173 1073 & BIOL 1134) Yes/No~~
~~2. Hours of Observation Yes/No~~
~~3. Completed File Yes/No~~

~~(Any 'No' categories will not be considered for an interview and not able to continue in the admissions process.)~~

~~4. Cumulative GPA* 33 percent~~
~~5. Interview 33 percent~~
~~6. Average of ACI/CI Evaluations 33 percent~~

*If a student has attempted a course multiple times at other institutions, the Athletic Training Education Program will consider only the highest grade. The lower grades will not be considered in the Cumulative GPA.

RETENTION

Once admitted into the AT **program** ~~EP~~, the student must maintain a cumulative GPA of at least 2.5 and must receive no grade lower than a "C" in all major and associated courses. A student who does not maintain a 2.5 GPA will be placed on probation with the AT **program** ~~EP~~ for a semester. If after one semester the student has not achieved a cumulative GPA of at least 2.5, he/she may be dismissed from the program or allowed to continue for a maximum of one additional probationary semester. The latter condition will be granted only with permission from the AT **program**~~EP~~ Program Director, Clinical Education Coordinator, and the Chair of the Department of Athletic Training and Exercise Physiology. A student who receives a grade lower than a "C" in ATRN courses, will be on probation until able to repeat that course.

AT Clinical courses: ~~A s~~ **S**tudents **who receive a grade lower than a "C"** will not be allowed to progress onto the next ~~semester or~~ level of ATRN **clinical** courses until the **clinical** course has been repeated and the grade has been replaced with a "C" or better.

If a student fails to achieve a "C" or better during the second attempt **in any ATRN course**, the student will be dismissed from the AT **program** ~~EP~~.

TECHNICAL STANDARDS FOR ADMISSION

The Athletic Training ~~Education~~ Program at Midwestern State University is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training ~~Education~~ Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the Athletic Training ~~Education~~ Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC exam.

Candidates for selection to the Athletic Training ~~Education~~ Program must demonstrate:

No changes until…

ATHLETIC TRAINING ~~EDUCATION~~ PROGRAM

Clinical and Field Experience: Due to the strong practical component of the ~~ATEP~~ **AT program**, clinical supervision by **MSU athletic training preceptors** ~~approved clinical instructors~~ provides for unique educational experiences. The CAATE standards require that students receive a minimum of two academic years of clinical experience as part of the course work in the ~~ATEP~~ **AT program**. This clinical instruction and supervision will occur in a variety of athletic training settings including collegiate, secondary, clinical, hospital, and rehabilitative. These experiences are provided in conjunction with ATRN 1211, ~~2001~~, 2901, ~~3001, 3811~~, **3101**, 3901, ~~4001~~, 4801, and 4911.

Graduation: The completion of a Bachelor of Science in Athletic Training **(BSAT)** degree with a major in Athletic Training requires 120 semester credit hours. This degree is exempt from the University's minor requirement. Students may pursue additional major or minor areas of study to complement the program, realizing that additional course work and time will be necessary. A teaching certificate is recommended for those students wishing to seek employment in secondary school settings upon graduation.

COURSES IN ATHLETIC TRAINING (ATRN)

The following courses do not require acceptance into the Athletic Training ~~Education~~ Program.

1073. **Care and Prevention of Athletic Injuries** (TCCNS = PHED 2356) 3(3-0)

~~An introduction to basic athletic training techniques used for prevention and care of injuries common to the physically active individual. Students will receive first aid and CPR certification in addition to basic athletic taping, bracing, and padding techniques~~. **This course is for prospective coaches and exercise physiology students wishing to have an introduction to basic athletic training techniques used for prevention and care of injuries common to the physically active individual. The course will encompass theory and practical application of basic skills needed to treat and care for athletic injuries.** ~~.~~

1171. Introduction to Athletic Training Lab 1(0-3)

A laboratory experience to follow content in ATRN 1173. Skills will include basic taping and bracing used in athletic training. Students must be concurrently enrolled in ATRN 1173.

1173. Introduction to Athletic Training 3(3-0)

An introductory course to the health care profession of Athletic Training. This course is for students in the pre-professional phase of the AT program. Students will learn content and material leading to entry into the professional phase of the AT program. Students must be concurrently enrolled in ATRN 1171 Lab.

The following courses require acceptance into the Athletic Training Education Program.

1213. ~~**Taping and Palpations**~~ **Anatomy & Palpations for Athletic Training I** 3(3-0)

Prerequisite: ~~Athletic Training major or approval by instructor~~**ATRN 1173**. Co-requisite: ATRN 1211, **ATRN 3803**.

~~An investigation of muscle origin, insertion and actions with a demonstration of bony and soft tissue palpations with reference to proper medical terminology and abbreviations. Students are instructed in the proper application of taping, wrapping, padding, and bracing techniques in athletic training.~~ **A foundational course on muscle origins, insertions and actions with a study of bony and soft tissue palpations for the lower extremity with reference to proper medical terminology and abbreviations. Students must be concurrently enrolled in ATRN 1211 and ATRN 3803. Prerequisite: ATRN 1173. .**

1313. Anatomy & Palpations for Athletic Training II 3(3-0)

Prerequisite: ATRN 1213, Co-requisites: Enrolled in ATRN 2901 and ATRN 3813.

A continuation course on muscle origins, insertions and actions with a study of bony and soft tissue palpations for the upper extremity with reference to proper medical terminology and abbreviations. Students must be concurrently enrolled in ATRN 2901 and ATRN 3813. Prerequisites: ATRN 1213.

2211. Emergency Care & First Aid Lab 1(0-3)

Co-requisite: Enrollment in ATRN 2213.

A laboratory experience to follow content in ATRN 2213. Skills and proficiencies will include wound care, bandaging, splint, and immobilization techniques used in emergency care, first aid, CPR, and AED. Students must be concurrently enrolled in ATRN 2213.

2213. Emergency Care & First Aid 3(3-0)

A study of the concepts related to delivery of emergency care, first aid, and AED. Students will be given the opportunity to obtain national certification in first aid, CPR, and AED. Students must be concurrently enrolled in ATRN 2211 and successfully complete and pass skills and proficiencies in ATRN 2211.

~~3101~~**3911**. **Athletic Training Clinical IV** (formerly 2701) **(formerly 3101)** 1(0-3)

Prerequisites: ATRN 2901, 3901. Co-requisite: ATRN 3103.

Includes assigned clinical experiences as well as practical experience in prevention, assessment, and management of injuries and illnesses common to the physically active individual.

~~3901~~**3111**. **Athletic Training Clinical III (formerly 3901)** 1(0-3)

Prerequisites: ATRN 2901, 3811. Co-requisite: ATRN 3913.

Includes assigned clinical experiences as well as practical experiences in both laboratory and clinical application of therapeutic and rehabilitation exercises. Topics include the planning and implementation of therapeutic exercise related to the rehabilitation of the physically active patient.

4903. **Administration of Athletic Training** (formerly 3903) 3(3-0)
Prerequisite: Senior standing within the ATEP. Co-requisite: ATRN 4801.
Overview of administrative and finance principles applicable to the operation of athletic training programs.

4911. ~~Capstone: Theories and Practice of Athletic Training~~ **Athletic Training Clinical VI-Capstone 1(0-3)**
Prerequisite: Senior standing within the ATEP.
Problem-based course to encourage critical thinking and a continued mastery of athletic training clinical skills. Includes practical experience in both laboratory and clinical applications.

4991. Independent Study in Athletic Training 1(1-0)
Specialized studies in the scientific and applied areas of athletic training.

4992. Independent Study in Athletic Training 2(2-0)
Specialized studies in the scientific and applied areas of athletic training.

4993. Independent Study in Athletic **Training** 3(3-0)
Specialized studies in the scientific and applied areas of athletic training.

EXERCISE PHYSIOLOGY MAJOR

The requirements for the Bachelor of Science in Exercise Physiology are as follows:

General (see page 89)
Academic Foundations and Core Curriculum - 42 semester hours (See page 91)

Major (~~29~~ **34**~~5~~ semester hours)
ATRN 1073, EXPH **1904,** 1993, 2333, 2501, 2503, 3003, 3331, 3913, 4676 (or 4953 and 4963), 4701, and 4703.

Exercise Physiology students have the following other specific requirements **(43):**
BIOL 1144, 3104, 3234, 4444, CHEM 1141/1143, 1241/1243, ~~CMPS 1013~~, ENGL 3203, MATH 1433 **OR 1534**, PHYS 1144, 1244, **PSYC 3233**.

COURSES IN EXERCISE PHYSIOLOGY (EXPH)

1904. Science & Practice of Fitness Conditioning 4(2-2)
A foundational study of the science and practice of exercise training. In particular, topics related to the science of fitness programming and exercise technique will be investigated. Current trends in fitness and exercise will also be discussed and students will participate in an exercise training lab which will include fitness testing and exercise training.

2503. **Physiology of Sport and Fitness** 3(3-0)
Prerequisite: BIOL 1134, Co-requisite: EXPH 2501.
A study of human physiology relevant to coaches and fitness professionals. A secondary focus of the course is practical experience in field-based physiological measures of fitness and performance.

3901. Therapeutic Exercise Lab 1(0-3)
Co-requisite: Must be taken in conjunction with EXPH 3913 Therapeutic Exercise.
A laboratory experience to accompany EXPH 3913. Topics include the planning and implementation of therapeutic exercise related to the rehabilitation of the physically active patient.

3913. **Therapeutic Exercise** (formerly 4813) 3(3-0)
Prerequisites: EXPH 1983 and permission of the instructor.~~.~~ **Co-requisite: Must be taken in conjunction with EXPH 3901 Therapeutic Exercise Lab.**

Theory and practice of methods of rehabilitating injured athletes and patients in order to return them to participation in exercise and sports in a safe and healthy manner. (Same as ATRN 3913.)

4676. **Internship in Exercise Physiology** 6 semester hours

Prerequisites: ~~Completion of 15 hours of major and permission of instructor.~~ **EXPH 4703**

Students must complete 288 hours in an approved setting which offers professional experience in exercise physiology.

Dental Hygiene

Dental Hygiene Undergraduate Catalog Changes

DENTAL HYGIENE

Barbara DeBois, Chair (Gaines Clinic, J.S. Bridwell Hall)
Associate Professor: Davis
Assistant Professors: Crump, ~~Curran~~, DeBois, **Kelley**

The Bachelor of Science in Dental Hygiene (~~123~~ **120** semester hours)

The Dental Hygiene Department offers the Bachelor of Science in Dental Hygiene degree (BSDH). The curriculum consists of (1) the dental hygiene prerequisite courses and the University core curriculum taken during the freshman and sophomore years ~~(57 hours + 2 activity courses)~~ **(55 hours)** and (2) the dental hygiene courses (~~64~~ **65** hours) taken during the junior and senior years, after acceptance into the Dental Hygiene Program. Acceptance into the University does not constitute acceptance for admission into the Dental Hygiene Program. Entrance into the Dental Hygiene Program is competitive and limited to the number of clinical positions available in the M.S.U. Gaines Dental Hygiene Clinic (18). A new class is accepted each April for entry into the program the following fall semester.

ADMISSION POLICIES

To be considered for admission, the following basic requirements must be met by candidates on or before April 1 (for the following fall's entering class):

1. Be eligible for admission to M.S.U.
2. Submit a dental hygiene application and most recent transcripts depicting completed courses, as well as courses in progress, directly to the MSU Dental Hygiene Department with the $25.00 application fee. Dental Hygiene applications can be downloaded from the MSU Dental Hygiene website at http://hs2.mwsu.edu/dental.
3. Present a minimum cumulative GPA of ~~2.50~~ **3.0** and a minimum science GPA of ~~2.50~~ **3.0** for all attempted or completed BSDH prerequisite and core academic courses.
4. Provide documentation of work experience or 80 hours of observation in a dental office. The documentation form can be downloaded from the MSU Dental Hygiene website listed in #2 above.
5. Complete the Health Occupations Basic Entrance Test (HOBET) ~~**OR** the Nursing Entrance Test (NET)~~ with ~~a~~ **an average** score of 63% or higher ~~in BOTH, *Main Ideas of Passage* AND *Reading Comprehension*~~ **on the five scored areas in the *Reading* and *English & Language Usage* sections**. Exams may be taken only two times within a six month time frame. Contact MSU Testing Services at 940-397-4676. Only HOBET ~~or NET~~ will be accepted, no exceptions. Exams can be taken at sites
6. Successfully complete the following courses **prior** to entering the Dental Hygiene Program: Recommended degree plan can be downloaded from the Dental Hygiene website listed in #2 above. **May apply to program while enrolled in prerequisite courses.**

Dental Hygiene Science Prerequisites (~~18~~ **16** semester hours):
~~BIOL 1134, 1234, 2144~~
~~CHEM 1303~~
~~Nutrition (3 hours)~~

BIOL 1133 and BIOL 1233 Anatomy & Physiology 1 & 2 (6 hours)
BIOL 2144 Microbiology (4 hours)
BIOL 1333 or EXPH 2333 Nutrition (3 hours)
CHEM 1303 Preferred General Organic-Biological Chemistry
Any Chemistry accepted (3 hours)

~~Basic Core (27 semester hours):~~
~~POLS 1333, 1433~~
~~ENGL 1113, 1123~~
~~MATH – 3 hours college level (other than developmental)~~
~~HIST 1133, 1233~~
~~SPCH 1133, 1233, or 2423~~
~~Demonstrate computer literacy by taking a proficiency test or earning credit for CMPS 1013, 1033, 1044, or EDUC 1023 – 3-4 hours~~

~~Additional Academic Course Work (14 semester hours):~~
~~Fine Arts (3 hours)~~
~~HUMN (3 hours)~~
~~EXPH (2 activities)~~
~~PSYC 1103~~
~~SOCL 1133~~

Additional Course Requirements for a BSDH degree (39 hours)
Eleven (11) of the following thirteen (13) courses are required prior to entering the Dental Hygiene Program:

POLS 1333 American Government (3 hours)
POLS 1433 American Government-Texas (3 hours)
ENGL/SPCH 1103 Introduction to Communication (3 hours)
ENGL 1123 Rhetoric and Composition (3 hours)
MATH Any college-level mathematics listed in the core curriculum (3 hours)
HIST 1133 American History to 1865 (3 hours)
HIST 1233 American History since 1865 (3 hours)
PSYC 1103 General Psychology (3 hours)
SOCL 1133 Introductory Sociology (3 hours)
PHIL 2033 Ethics (3 hours)
SCIE 2103 Undergraduate Inquiry & Creativity (3 hours)
Any accepted but Interdisciplinary Science Research will earn an additional ranking point
Cultural & Global Understanding (3 hours)
Creative Arts (3 hours)

~~Recommended degree plan can be downloaded from the Dental Hygiene website listed in #2 above.~~

APPLICANT SELECTION PROCEDURES

Due to the limited availability of clinical positions, the selection process for admission into the Dental Hygiene Program is based upon a ranking system. **The Dental Hygiene Program Admissions Committee will evaluate all applications and rank them according to designated point values for the following criteria**. ~~Applicant ranking will be based upon, but not limited to~~

- GPA of prerequisite courses (cumulative GPA and science GPA)
- Number of prerequisite and core courses completed with a grade of B or better
- Number of prerequisite and core courses in progress at application deadline
- **Number of prerequisite courses taken at MSU**
- Previous dental-related experience

- Dental Hygiene Program Application
- Performance on the Health Occupations Basic Entrance Test (HOBET) ~~or the Nursing Entrance Test (NET)~~

For additional information on application procedures, admission requirements, and applicant ranking computations, visit the department website at: http://hs2.mwsu.edu/dental

PROGRESSION POLICY

Dental hygiene courses must be taken in the sequences prescribed. The lack of satisfactory completion of such courses in sequence will result in suspension from the program until the courses can be repeated. Requirements are as follows:

1. A student must attain a grade of 75 (C) or above in each of the dental hygiene major courses: MAJOR REQUIREMENTS (~~64~~ **65** semester hours) Dental Hygiene 3002, ~~3003~~ **3004,** 3005, 3013, 3014, 3022, 3023, 3102, 3114, 3124, 4003, 4013, 4018, 4022, 4023, 4032, 4038, 4103.
2. Failure to attain a minimum grade of 75 in any course will prevent the student from progressing in the program until the course(s) can be repeated. Dental hygiene courses are offered only once per academic year; therefore, failure of a course(s) will require a student to sit out for a full year.
3. A student who fails to achieve a grade of 75 in any of the dental hygiene courses may repeat the course only once with the approval of the BSDH Program Admissions Committee. Failure to achieve a minimum grade of 75 when repeating a dental hygiene course results in dismissal from the program, and the student may not reapply to this Dental Hygiene Program.
4. **Failure in any two (2) dental hygiene courses (either the same course twice or two different courses renders the student ineligible for progression in this dental hygiene program and will result in the dismissal of the student from the program. The student may not reapply to this dental hygiene program.**
5. ~~4.~~ A student who withdraws from the Dental Hygiene Program and/or the University must go through the dental hygiene admissions process again to be readmitted.
6. ~~5.~~ The BSDH Program Admissions Committee reserves the right to make exceptions to the above due to extenuating circumstances.

COURSES IN DENTAL HYGIENE (DNHY)

~~3003~~. **3004** Dental Hygiene II ~~3(3-0)~~ **4(4-0)**
Prerequisites: DNHY 3014, 3114. Concurrent enrollment in DNHY 3005 (Clinical Practice II).
This course focuses on the knowledge necessary to instruct dental patients in prevention of oral diseases with a study of professional and patient-utilized plaque removal techniques and aids as they apply to various age groups of patients, use of fluorides, oral irrigation, care of hypersensitive teeth, and cleaning of dental appliances. Discussion of basic research methodology in regard to product evaluation. An examination of common physical characteristics of various age groups with emphasis on how these might affect treatment, as well as content of patient education. Includes discussion and analysis of the patient/healthcare provider relationship regarding ethical and legal responsibilities of each.
3005. Clinical Practice II 5(0-10)
Prerequisites: DNHY 3014, 3114. Concurrent enrollment in DNHY ~~3003~~ **3004.**
Further development of skills acquired in prerequisite Clinical Practice course through treatment of clinical patients under close supervision of program faculty. Introduction and development of selective polishing procedures and practical application of professional methods utilized to clean dental appliances.

4013. Dental Health Education 3(3-0)
Prerequisites: DNHY ~~3003~~ **3004**, 3005, 3023.
This course builds on previously learned knowledge by integrating it with the concepts of learning theory and applications, motivation, and the physical, mental, emotional, social, and moral development of various age groups. Emphasis is placed on the interrelationship of physical (general, as well as oral), psychological, social, cultural, and economic influences in compliance and noncompliance with preventive dental health

programs, techniques, and aides. It explores the dental hygienist's role in the assessment of patient needs, planning treatment and patient education strategies, and then implementation and evaluation of these activities. Introduction of objectives, curriculum development, and preparation of lesson plans for oral health presentations.

4023. Dental Hygiene III 3(3-0)
Prerequisites: DNHY ~~3003~~ **3004**, 3005, 3102. Concurrent enrollment in DNHY 4018 (Clinical Practice III). A study of the rationale, indications and/or contraindications, and utilization techniques for various procedures including pit and fissure sealants, ultrasonic scaling, periodontal scaling and root planning. The concepts of decision making are examined to help students become responsible and account for their actions. Recognition and management of life threatening emergency situations are reviewed, with in-depth discussion of the etiological and/or precipitating factors, and the possible effects of these factors on the oral tissues. Emphasis is placed on the integration of this information with knowledge obtained in prerequisite courses to further develop critical thinking skills in obtaining comprehensive patient medical histories and development of dental hygiene treatment plans. This course must be taken in conjunction with Clinical Practice III to achieve cognitive, psychomotor, and affective skills in patient care procedures covered.

Radiologic Science

Undergraduate Course Changes, effective Fall 2014
New Course Addition

RADS 2022. Introduction to Professional Practice
Prerequisite: Program Admission
Description: This course is designed to introduce students to subjects related to radiologic technology practice and will serve to connect students with professors and clinical students. Subjects such as radiation and equipment safety, communication, ethics, difficult patients (pediatric, trauma, alcohol and drug users, and geriatrics) will be discussed. Students will learn to handle radiologic science equipment and participate in patient/imaging scenarios.
Lecture (Classroom and Internet) 2(2-0)
Course Objectives and/or additional information:
Through this course, students will:

1. **Practice effective communication skills for dealing with patients, hospital personnel, and supervisors.**
2. **Recognize the importance of ethical behavior, including professional practice and student responsibilities.**
3. **Safely operate radiographic equipment.**
4. **Use radiation safety equipment effectively while following radiation safety rules.**
5. **Discuss and perform difficult patient safety skills during radiographic procedures while protecting themselves**

Change of Course Title and Course Description

RADS 3773. Radiobiology **and Protection**
Description: A study of the theories and principles of the interactions of ionizing radiation with biological systems, acute and long-term effects of ionizing radiation exposure, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure in both the diagnostic and therapeutic settings are the focus of this course.

Change of Prerequisite and Course Description

RADS 4783. Computed Tomography Applications
Prerequisite(s): none – removing current prerequisites
Description: This course focuses on using computed tomography as an imaging tool from the technologist's perspective. Topics include a review of patient, contrast media and adverse reactions, and imaging protocols for the head, neck, chest, abdomen, pelvis, and spine. CT-guided interventional techniques will also be discussed. Ability to perform CT scans on patients or instructor consent required.

Bachelor of Science in Radiologic Technology Degree Plan - 2014-2016 Catalog

Comments: A minimum of 30 advanced (Jr/Sr level) semester hours are required of the total 120 degree hours. Courses at MSU beginning with a 3 or 4 are advanced. Students MUST complete 12 semester hours at MSU from a particular catalog to graduate under that catalog. The total amount of hours required for this degree is 120. Students should keep a copy of this degree plan on file and update it periodically. Students must satisfy Writing Proficiency Exam requirements between 60 and 90 hrs.

General Core Courses

Semester	Course Name	Credits	Comp	Course Sub
Fall I or prior to application	BIOL 1133 ANAT & PHYS I *	3		
	ENGL/SPCH 1103 INTRO TO COMM.	3		
	PSYC 1103 GEN PSYC OR SOCL 1133 INTRO TO SOCL	3		
	POLS 1333 AMER GOVT I	3		
	RADS 1001 INTRO RADS *	1		
	RADS 1011 MED TERM *	1		
Spring I or prior to application	BIOL 1233 ANAT & PHYS II *	3		
	ENGL 1123 RHET & COMP	3		
	CORE MATH (MATH 1053, 1203, 1233)	3		
	POLS 1433 AMER GOVT II	3		
	HIST 1233 HIST SINCE 1865	3		
***BIOL 1133 & 1233 and RADS 1001 & 1011 MUST be completed by the end of the Summer II session.**				
Apply between August 1st and September 30th.				
Fall II	HIST 1133 HIST TO 1865	3		
	LANGUAGE, PHILOSOPHY & CULTURE	3		
	CREATIVE ARTS	3		
	UNDERGRADUATE INQUIRY & CREATIVITY	3		
	RADS 4123 DATA ANALYSIS or approved statistics	3		
All of the above hours must be completed by the end of the Fall II semester.				
Professional Courses				
Spring II	RADS 2022 INTRO TO PROF PRACT ^	2		
	RADS 3503 RESEARCH	3		
	RADS 3203 PATHOPHYSIOLOGY	3		
	RADS 4643 HEALTH LAW	3		
	CULTURAL AND GLOBAL UNDERSTANDING ^	3		
^ The courses denoted with a ^ must be completed by the end of the Spring II semester.				
Summer II	RADS 3773 RADIOBIOLOGY & PROTEC	3		
	RADS 4733 SECTIONAL ANATOMY	3		
Fall III	RADS 3033 PRIN RAD IMAGING I p	3		
	RADS 3043 BASIC RADIO PROC p	3		
	RADS 3513 RADIO IMAGING EQUIP p	3		
	RADS 4913 APPLIED RESEARCH	3		
Spring III	RADS 3123 PRIN RAD IMAGING II p	3		
	RADS 3423 INT RAD PROCEDURES p	3		
	RADS 3233 PATIENT CARE p	3		
	RADS 3223 ADV RAD PROCEDURES p	3		

RADS Elective Course Choices

RADS 3413 CARDIO & INTRV	RADS 4743 MRI
RADS 3833 BONE DENS	RADS 4753 MAMMO
RADS 4513 ADM & SUPR	RADS 4773 MRI APPLS
RADS 4523 PACS IN RAD	RADS 4763 MAMMO QP
RADS 4623 RADS QUAL CON	RADS 4783 CT APPS
RADS 4723 PRIN OF CT	

Elective Course Combinations for Area Tracks

Non-Track	Any two electives
Administration Track	RADS 4513 & 4623
Computed Tomography Track	RADS 4723 & 4783
Mammography Track	RADS 4753 & 4763
Magnetic Resonance Imaging Track	RADS 4743 & 4773
Cardiovascular/Advanced Clinical Track	RADS 3413 & 4723

Additional Requirements

WPE Fulfilled ___Exam ___ ENGL 2113

SUMMARY OF WORK REQUIRED FOR DEGREE

Area	Cr. Hrs.	Adv. Hrs.
MAJOR	78	30
General Core	42	0
TOTAL	120	30

Summer III	RADS 4114 CLINICAL EDUC I [P]	4			
	RADS 4633 CONT QUAL IMIPROV	3			
Fall IV	RADS 4215 CLINICIAL EDUC II [P]	5			
	RADS 3213 ADV CLINICAL SKILLS	3			
	RADS 4912 SPEC TOPICS [P]	2			
	RADS ELECTIVE	3			
Spring IV	RADS 4315 CLINICAL EDUC III [P]	5			
	RADS 4332 RAD TECH SEMINAR [P]	2			
	RADS 4232 ADV MED IMAGING [P]	2			
	RADS ELECTIVE	3			
[P] Progression courses denoted with a [P] must be taken in the designated sequence.					

Undergraduate Catalog Changes

RADIOLOGIC SCIENCES

~~Donna Lee Wright~~, **Dr. Jeffrey Killion Chair** (J. S. Bridwell Hall 201F)
Professor: Wright
Associate Professors: Comello, Johnston, Killion, Morrison, Phifer, Vealé
Assistant Professors: ~~Sanders, Watts, Wilbanks~~ **Clark, Onstott, Sanders, Wagner, Watts, Wertz, Wynne**

Professors Emeriti: Bugg~~, Zembrod~~

Midwestern State University offers three separate programs in the Radiologic Sciences: an entry-level ~~Associate of Applied Science in Radiography~~; **Bachelor of Science in Radiologic Technology**, a post-certification Bachelor of Science in Radiologic Sciences; and one of the only discipline specific Master of Science in Radiologic Sciences in the United States with majors in Radiologic Education, Radiologic Administration, and Radiologist Assistant.

~~A~~SSOCIATE OF APPLIED SCIENCE IN RADIOGRAPHY ~~(72 semester hours)~~
Bachelor of Science in Radiologic Technology (120 hrs)

The Radiologic Sciences entry-level ~~AAS~~ **BSRT** Program prepares students for careers as radiographers. Upon completion of all program requirements, students are prepared to take the national certification examination administered by the American Registry of Radiologic Technologists (ARRT). Additionally, graduates may be eligible for certification by the state of Texas as Medical Radiologic Technologists.

The ~~AAS~~ **BSRT** Program in ~~Radiography~~ **Radiologic Technology** is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The mission of the ~~AAS~~ **BSRT** program is to provide students with both the academic and technical foundations to competently and safely perform radiologic procedures, to prepare qualified imaging technologists who will ethically respond to the needs of patients with technical competence and compassion, and to assume a vital professional role as a medical team member. The learning outcomes of the ~~AAS~~ **BSRT** Program are that ~~AAS~~ **BSRT** students will

1. Be adequately prepared to enter the profession in a culturally diverse society.
2. Develop independent and critical thinking skills.
3. Pursue education beyond the entry level ~~AAS~~ **BSRT** Program.
4. Develop professionalism through entry-level radiography clinical competence.

ADMISSION CRITERIA FOR THE **BSRT** PROGRAM

1. Be eligible for admission to Midwestern State University.
2. Complete the online ~~AAS~~ **BSRT** Program application on the department website at ~~http://hs2.mwsu.edu/radsci~~. **http://www.mwsu.edu/academics/hs2/radsci/bsrt/program-application-new**

3. Have a cumulative GPA of 2.5 or greater on all college-level work and be in good academic standing.
4. Complete BIOL **1133 or** 1134, BIOL **1233 or** 1234, RADS 1001, and RADS 1011 with grades of C or better.
5. Complete all remediation requirements.
6. Have reliable Internet access (high speed recommended) and a working email address.

ADMISSION PROCEDURES FOR THE ~~AAS~~ **BSRT** PROGRAM

The professional phase of the ~~AAS~~ **BSRT** program begins in the ~~fall~~ **spring** semester. Applications for **admission** ~~entrance the following fall semester~~ are accepted ~~January 1~~ **August 1st** until ~~March 1~~ **September 30th**. Because of the limited availability of clinical sites, admission to the ~~AAS~~ **BSRT** program is competitive, and qualified applicants are accepted only until the class is full. No applications will be accepted after ~~March 1~~ **September 30th.** Applicants are rank-ordered according to a formula based on, but not limited to, several criteria such as core course completion, grade point average, and previous experiences in medical environments.

For additional information on application procedures and admission requirements, visit the department website at:~~http://hs2.mwsu.edu/radsci~~ **http://www.mwsu.edu/academics/hs2/radsci/bsrt/index**

PROGRESSION POLICY FOR THE **BSRT** PROGRAM

1. All professional **progression** (RADS) courses must be taken in the sequence prescribed.
2. Students must earn a C (2.0) or above in all professional **progression** courses.
3. **Courses that have the "P" designation require passing grades of 75 or better.**
4. Failure to attain a minimum grade of C in any professional course will prevent students from progressing in the program until the course(s) can be repeated. Each failed course can be repeated only once. Students who fail any professional course must reapply to the program. Students who fail more than one professional course or the same course more than once will be prevented from completing the program.
5. Prior to enrollment in RADS 2114 Clinical Education I, students must provide documentation of:
    a. Program-approved student liability insurance
    b. Compliance with state mandated immunizations
    c. Health insurance
    d. CPR certification (2 year certification for child and adult)
    e. Compliance with program approved criminal background check
    f. Drug screening with no illegal substances

CURRICULUM REQUIREMENTS FOR **BSRT** PROGRAM

General Academic Courses (**42** semester hours): BIOL **1133** & **1233**, ~~ENGL 1113 & 1123~~, **ENGL/SPCH 1103**, **ENGL 1123**, college level math, ~~Fine Arts/~~**elective**, **Creative Arts, Language, Philosophy & Culture,** ~~Humanities elective~~, **HIST 1133 & 1233**, **POLS 1333 & 1433**, PSYC 1103 or SOCL 1133; and **Cultural and Global Components (3 hours), and Undergraduate Inquiry and Creativity (3 hours).**

Major (~~46~~ **78** semester hours): ~~RADS 1001, 1011, 1223, 1313, 1413, 1423, 1513, 2112, 2114, 2123, 2215, 2232, 2233, 2315, 2332, 2711, and 2912.~~ **RADS 1001, 1011, 2022, 3033^{P}, 3043^{P}, 3123^{P}, 3203, 3213, 3223^{P,} 3233^{P}, 3423^{P}, 3503, 3513^{P}, 3773, 4114^{P}, 4123*, 4215 ^{P}, 4232^{P}, 4315^{P}, 4332^{P}, 4633, 4643, 4733, 4912^{P}, 4913, and six (6) hours of RADS elective courses. Note: Courses marked with a "^{P}" are professional progression courses.**

***Three (3) hours of Jr/Sr level statistics may be substituted for RADS 4123.**

BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES (120 semester hours)

The Bachelor of Science in Radiologic Sciences degree is a post-certification program designed to meet the unique needs of registered radiologic technologists currently working in the field. The program offers a variety of courses designed to prepare students for advanced level examinations in specific modalities.

The mission of the BSRS Program is to prepare ARRT-registered technologists for advanced certification and to assume greater responsibilities in the profession. The learning outcomes of the BSRS Program are that BSRS students will

1. Be adequately prepared to enter and function within the profession in an advanced role in a culturally diverse society.
2. Develop independent and critical thinking skills.
3. Pursue life-long learning.
4. Develop professionalism through scholarly productivity.

All BSRS courses are offered online as full Internet courses.

ADMISSION CRITERIA FOR THE BSRS PROGRAM

1. Meet all MSU admission requirements.
2. Have a cumulative GPA of 2.0 or higher.
3. Be certified by the ARRT, NMTCB, ARDMS or be a second year student in an accredited Radiologic Sciences Program.
4. Have reliable Internet access (high speed required) and a working email address.
5. Meet Texas Success Initiative (TSI) requirements (see page 67), or submit a signed copy of the TSI Temporary Waiver Form for Distance Education Students found at ~~http://registrar.mwsu.edu/successdist.asp.~~ **http://www.mwsu.edu/registrar/success/index**

ADMISSION PROCEDURES FOR THE BSRS PROGRAM

1. Submit all required admission materials to MSU Admissions.
2. Complete the online BSRS Program application on the department website at ~~http://hs2.mwsu.edu/radsci~~. **http://www.mwsu.edu/academics/hs2/radsci/bsrs/**.
3. Contact the Admissions Counselor for the College of Health Sciences and Human Services. Students will be assigned a Radiologic Sciences faculty advisor when they start taking professional courses (RADS prefixes).
4. Submit a working email address to the Admissions Counselor for the College of Health Sciences and Human Services.
5. Complete the online BSRS Program Orientation linked to the Radiologic Sciences website.

ADVANCED PLACEMENT PROCEDURES

Students in the BSRS Degree Completion Program are awarded 42 credit hours for holding current and valid professional certification from the American Registry of Radiologic Technologists (ARRT), the Nuclear Medicine Technology Certification Board (NMTCB), or the American Registry of Diagnostic Medical Sonography (ARDMS).

Additional advanced standing credit is awarded to technologists certified in advanced registries. This credit is awarded as follows:

ARRT (T) - RADS 3313
ARRT (N) or NMTCB - RADS 3803
ART (BD) - RADS 3833
ARRT (M) - RADS 4753
ARRT (QM) - RADS 4623
ARRT (CV) or (VI) or (CI) - RADS 3413
ARRT (CT) - RADS 4783
ARRT (MR) - RADS 4743
ARRT (S) or ARDMS - RADS 4713

Credit awarded for advanced standing does not apply toward the resident credit requirements.

For additional information on application procedures, admission requirements or advanced placement procedures, visit the department website at: ~~http://hs2.mwsu.edu/radsci~~ **http://www.mwsu.edu/academics/hs2/radsci/bsrs/**

CURRICULUM REQUIREMENTS FOR THE BSRS PROGRAM

Basic Core Curriculum for the BSRS degree (**42** semester hours)
POLS 1333 **&** 1433
ENGL/SPCH 1103
ENGL 1123
HIST 1133 **&** 1233
College Level Math **(3 sem. hrs.)**
Creative Arts (3 sem. hrs.)
Psychology OR Sociology (3 sem. hrs.)
Life and Physical Sciences (6 sem. hrs.)
Language, Philosophy & Culture (3 sem. hrs.)
Cultural and Global Components (3 sem. hrs.)
Undergraduate Inquiry and Creativity (3 sem. hrs.)

BSRS students must also meet such MSU requirements for graduation as passing the Writing Proficiency Exam or taking ENGL 2113.

Major (**78** semester hours)

Major/Professional Core Courses **(24 semester hours)-** Students take ALL **eight** (**8**) - **courses:**
RADS 3203, 3213, 3503, 3773, **4123 (or Jr./Sr.-level statistics)**, 4633, 4643, 4913

Major/Professional Elective Courses (12 semester hours)- -Any four (4) additional RADS courses from the following:
RADS 3023, 3313, 3413, 3803, 3833, 4433, 4513, 4523, 4623, 4713, 4723, 4733, 4743, 4753, 4763, 4773, 4783, 4813, 4823, 4833, 4903, and 4923.

COURSES IN RADIOLOGIC SCIENCES (RADS)

~~**AAS PROGRAM RADIOLOGIC SCIENCES COURSES**~~

1423. Intermediate Radiographic Procedures 3(2-4)
Prerequisite: RADS 1413.
A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of intermediate anatomy and related pathology. Learning Outcomes: The student will manipulate equipment properly; position and align anatomical structure and equipment; and evaluate images for proper demonstration of anatomy and pathology.

3773. ~~**Radiobiology**~~ **Radiobiology and Protection** 3(3-0)
~~Theories and principles of the interactions of ionizing radiation with living systems are the focus of this course. Radiation effects on biologic organisms and factors affecting biological responses are explored and applied to daily practice. Topics include acute and long- term effects of ionizing radiation exposure. The student will explore applications in diagnostic and therapeutic settings.~~ **A study of the theories and principles of the interactions of ionizing radiation with biological systems, acute and long-term effects of ionizing radiation exposure, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure in both the diagnostic and therapeutic settings are the focus of this course.**

4783. **Computed Tomography Applications** 3(3-0)
~~Prerequisite: RADS 4723~~
This course focuses on using computed tomography as an imaging tool from the technologist's perspective. Topics include a review of patient, contrast media and adverse reactions, and imaging protocols for the head, neck, chest, abdomen, pelvis, and spine. CT-guided interventional techniques will also be discussed. **Ability to perform** CT- **scans on patients** or instructor consent required.

Respiratory Care

New Course Addition, effective Fall 2014

RESP 4153. Ethics of Respiratory Care
Description: This distance learning course considers ethical theories and principles applicable to the allied health professions with a primary focus on Respiratory Care. Using scholarly inquiry, including case studies, students will analyze ethical dilemmas that may occur in their professional roles as respiratory therapists. Students will address ethical and legal circumstances across the lifespan in diverse socioeconomic and cultural situations.
Lecture 3(3-0)
Course Objectives and/or additional information:

1. Describe various ethical principles and concepts; autonomy, beneficence, non-maleficence, and justice.
2. Recall and discuss the historical and current evolution of ethical thought including milestones, such as the Hippocratic Oath and the American Association for Respiratory Care's Code of Ethics.
3. Devise ways in which ethical dilemmas can be resolved and methods of ethical decision-making expressed in the production of scholarly writing's utilizing the APA format.
4. Critique some commonly occurring ethical issues and resources. Select resources, including human resources that can be used to make ethical decisions.
5. Use a systematic method of deciding which the best solution for a particular situation is.
6. Validate the important role of hospital ethics committees.

Change of Course Description, effective Fall 2014

RESP 4423. Research and Respiratory Care
Prerequisite: Senior respiratory care student
This lecture course instructs the respiratory care student in the role research plays in the practice of respiratory care. Quality improvement is used to emphasize the basic components of research. Quality improvement is used to emphasize the basic components of research. Topics include problem development, literature review, data analysis techniques and interpretation, institutional review boards, and communicating the results. **When taught online the course will instruct health science and human services students in the role of research in interdisciplinary health studies.**

RESP 4432. Theoretical Applications
Description: This lecture class provides the student with an assessment of his/her educational strengths and weaknesses with respect to the practice of respiratory care. Topics include an assessment of the following examinations; ~~written registry, clinical simulations, and if time permits, pulmonary function technology~~. ~~Passing the Certified Respiratory Therapist (CRT) examination and mock written registry and clinical simulation examinations are required in this class~~**. therapist multiple-choice exam, clinical simulations, and if time permits, neonatal/pediatric exam. Passing mock written registry and clinical simulation examinations are required in this class.**

Catalog Changes

RESPIRATORY CARE

Jennifer Gresham ~~Annette O. Medford~~, Chair, Chair (J.S. Bridwell Hall 301C)
Tammy Kurszewski, Clinical Chair (J.S. Bridwell Hall 301D)

Assistant Professors: **Case,** Gresham, Helton, **Judie**, Kurszewski, ~~Medford~~
Professor Emeritus: Medford

The Respiratory Care Department offers a curriculum leading to a Bachelor of Science in Respiratory Care degree. Following completion of the BSRC program, graduates are eligible to sit for the credentialing examination for the Registered Respiratory Therapist (RRT). Registered Respiratory Therapists (RRT) may be admitted to the program through advanced standing as defined in the policy set up by the department. The BSRC program is accredited by the Commission on Accreditation for Respiratory Care. ~~The program consists of 125 semester hours + 2 physical activities* (68 semester hours in respiratory care and 57 non-respiratory care semester hours).~~

MISSION STATEMENT FOR THE RESPIRATORY CARE PROGRAM

The Respiratory Care Program at Midwestern State University is dedicated to providing state of the art instruction emphasizing clinical practice based on scientific inquiry and meeting the needs of a diverse healthcare community. The educational framework focuses on the unique skills of the respiratory therapist and emphasizes the importance of lifelong learning to the healthcare professional. The program provides a student centered undergraduate educational experience based on a strong liberal arts foundation and strives to prepare graduates to embrace ethical practice, reflect competence in clinical skill, and display professional conduct.

ADMISSION INTO THE RESPIRATORY CARE MAJOR (BSRC)

Admission in this policy refers to a formal evaluation of program prerequisites and other course work so that those students who gain formal admission can advance to the junior and senior level respiratory care courses. This policy should not be confused with freshman and sophomore students who are respiratory care majors. Being a respiratory care major does not imply or guarantee program admission. Three admission categories exist: full, conditional, and denied. Full program admission is granted to applicants who have completed all program prerequisites, required academic foundation courses and are in good academic standing. Conditional program admission is granted to applicants who have not completed, but are presently enrolled in, course work that will complete the prerequisites and required academic foundation courses. Once a conditionally admitted student successfully completes the required course work the admission status is automatically upgraded to full admission. A student who is conditionally admitted but does not successfully complete the prerequisites, will lose conditional status.

APPLICANT SELECTION PROCEDURES

Due to limited availability of clinical sites, ~~qualified applicants~~ **the selection process for admission into the Respiratory Care Program is based upon a ranking system. Applicant ranking will be based upon, but not limited to:**

- **GPA of prerequisite courses**
- **Number of prerequisite courses completed at MSU**
- **Performance on the Health Occupations Basic Entrance Test (HOBET)**
- **Applicant Personal Interview with program faculty**

~~will be accepted only until the class is full~~. The following rules apply to admission to the Respiratory Care Program:

1. Be admitted to the University.
2. Apply to the Respiratory Care Program; applications can be obtained online. Applications will be accepted between January 2 and April 15 for entrance into the program the following summer II semester.
3. Submit a copy of the results of ~~either the Nursing Entrance Test (NET) or the~~ Health Occupations Basic Entrance Test (HOBET).
4. All program prerequisites must be completed before taking any respiratory care classes. The program prerequisites are Anatomy and Physiology I and II, Chemistry, college-level math, Microbiology, ~~Rhetoric and Composition I and II~~ **Introduction to Communication, Rhetoric & Composition**, ~~computer applications~~, ~~speech communication~~, and general psychology or **introductory** sociology. A minimum grade of C is required for all program prerequisites.
5. **36 of the 42 required general core credits must be completed prior to being formally admitted to the respiratory care program.**
6. ~~The required academic foundation courses are humanities (6 hours), economics, American Government (6 hours), U.S. History to 1865, U.S. History since 1865, fine arts, and two exercise physiology activity courses* (see specific descriptions).~~
7. Notification of admission is made in writing and requires an acceptance form returned to the Respiratory Care Department. Return of a signed acceptance form signifies that the student agrees to all technical standards outlined in the admission packet.
8. Students will complete all BSRC degree requirements 22 months from beginning respiratory care course work. With the degree requirements completed in May the students are in the best position to be successful when they sit for the ~~registry~~ **National Board** Examination**s** following graduation.

TIME LIMITATIONS

BSRC degree students must complete all respiratory courses within a 3-year period of time beginning with the initial enrollment into Foundations of Patient Care.

PROGRESSION POLICY FOR BSRC DEGREE

Students must maintain satisfactory standards in classroom and clinical activities to be retained and to progress in the program. Requirements are as follows:

1. A minimum grade of C is required for all the following courses:

   BIOL ~~1134, 1234, 2144~~ **1133, 1233, 3004** CHEM – 3 semester hours
   PSYC 1103 or SOCL 1133 MATH – 3 semester hours college-level
   ENGL ~~1113~~,**1103**, 1123 ~~Computer literacy – 3 semester hours**~~
   ~~SPCH 1133, 1233, or 2423~~

   Failure to attain a minimum grade of C in each of these courses will prevent the student from being formally admitted to Respiratory Care. All of the above courses must be completed before starting the respiratory care curriculum.
2. A minimum grade of 75 (C) is required in all respiratory courses. Failure to attain a minimum grade of C in these courses will prevent the student from progressing in the program. A student who fails to achieve a grade of C in any respiratory care course may repeat the course one time. Any student who fails to achieve a grade of C in any two respiratory care courses will be dismissed and not be eligible for re-admission.
3. A student who withdraws from respiratory care courses and/or the University, must go through the respiratory care admission process again.
4. A student on university academic probation may not enter or progress in the program.
5. Failure to achieve a minimum grade of C when repeating a respiratory care course will result in dismissal from the program and the student may not reapply to this respiratory care program.
6. The BSRC Program's Admission Committee reserves the right to make exceptions to the above due to extenuating circumstances.
7. Respiratory care courses must be taken in the sequence prescribed.

ACADEMIC FOUNDATIONS AND CORE CURRICULUM FOR THE BSRC DEGREE:

BIOL ~~1134, 1234, 2144~~ **1133, 1233, 2144**	~~HUMANITIES – 6 semester hours~~
CHEM – 3 semester hours	~~SPCH 1133 or 1233~~
PSYC 1103 or SOCL 1133	~~ECON 1333~~
~~EXPH – 2 physical activities*~~	HIST 1133, 1233
MATH – 3 semester hours college-level	POLS 1333, 1433
ENGL 1103, 1123	~~FINE ARTS – 3 semester hours~~
CREATIVE ARTS – 3 semester hours	**INQUIRY & CREATIVITY-3 semester hours**
CULTURAL & GLOBAL UNDERSTANDING – 3 semester hours	**LANGUAGE, PHILOSOPHY, & CULTURE – 3 semester hours**

~~**GENERAL DEGREE REQUIREMENTS:** Demonstrate computer literacy by taking a proficiency test or earning credit for **CMPS 1013, 1023, 1033, 1044, EDUC 1023, or MIS 2003.~~

MAJOR (71 semester hours)

RESP 3403, 3413, 3423, 3433, 3443, 3512, 3523, 3543, 3552, 3553, 3561, 3563, 3712, 3722, 4102, 4123**, 4133**, 4223, 4403, 4422, 4423, 4432, 4433, 4443, 4453, 4711, 4722, 4732.

Registered Respiratory Therapist-to-BSRC Program

This program refers to transfer of previously obtained training in Respiratory Care into the MSU Respiratory Care program. This policy specifically applies to individuals who possess the RRT credential and who wish to pursue the BSRC degree at MSU. The student will submit an official transcript to the University that documents the completion of the Registry level program. The department may grant the holder of the RRT credential ~~43~~ **41** semester hours toward the ~~68~~ **78** required Respiratory Care semester hours. This **professional credential** ~~transfer of~~ credit will be granted once the student has successfully completed 9 semester hours of MSU Respiratory Care course work.

- A minimum of 30 hours must be advanced level.
- A minimum of ~~32~~ **30** hours must be taken from MSU to satisfy the residency requirement.
- Meet the University Writing Proficiency Requirement.

- ~~*RRT to BSRC students are under the special academic core and are not required to take the exercise physiology activities courses.~~

The RRT-BSRC student may choose any combination of the following courses:

~~RESP 3423~~	~~RESP 3433~~	~~RESP 3523~~	RESP 3543
~~RESP 3552~~	RESP 3553	RESP 3563	~~RESP 4102~~
RESP 4123	RESP 4133	RESP 4223	RESP 4233*
RESP 4243*	RESP 4403	~~RESP 4422~~	RESP 4423
~~RESP 4432~~	~~RESP 4433~~	RESP 4443	~~RESP 4453~~
~~RESP 4652~~	~~RESP 4653~~	~~RESP 4803~~	**RESP 4153**

***RESP 4243 AND RESP 4233 may be taken twice with varied content.**

COURSES IN RESPIRATORY CARE (RESP)

No changes until…

3563. **Respiratory Pathophysiology** ~~(formerly 4463)~~ 3(3-0)

Prerequisites: RESP 3523, 3543.

This lecture course reviews the etiology, pathology, pathophysiology, clinical features, and treatments for common pulmonary diseases. Disease topics include asthma, bronchitis, emphysema, cystic fibrosis, shock, pulmonary embolism, heart failure, smoke inhalation and burns, ARDS, chest trauma, atelectasis, neuromuscular disease, and pneumonia.

4123. **Data Analysis** 3(3-0)

~~Prerequisite: Senior respiratory care student.~~

The focus of this course is to provide an interdisciplinary data analysis course specifically for health sciences and human services majors using techniques and data structures relevant to clinical investigations. General topics include choosing correct procedures and using statistics to understand clinical data. Specific topics include, but are not limited to, basic statistics, measures of correlation and difference, hypothesis testing and bias, confidence intervals, reliability and validity, significance, power analysis, levels of evidence, sample size and distribution, assessing effects of treatment, quality improvement, relative risk and relative risk reduction, and odds ratio.

4133. **Developing Leadership Capabilities in Respiratory Care** 3(3-0)

The focus of this lecture course is to introduce students to leadership theories in healthcare. This course provides a foundation for future healthcare leaders. Students are exposed to a series of alternative leadership perspectives, including collaborative models. Topics include: defining leadership, interdisciplinary and interprofessional working, communication and leadership, and leadership for change.

4153 Ethics of Respiratory Care 3(3-0)

This distance learning course considers ethical theories and principles applicable to the allied health professions with a primary focus on Respiratory Care. Using scholarly inquiry, including case studies, students will analyze ethical dilemmas that may occur in their professional roles as respiratory therapists. Students will address ethical and legal circumstances across the lifespan in diverse socioeconomic and cultural situations.

No changes until…

4423. **Research and Respiratory Care** 3(3-0)

Prerequisite: Senior respiratory care student.

This lecture course instructs the respiratory care student in the role research plays in the practice of respiratory care. Quality improvement is used to emphasize the basic components of research. Topics include problem development, literature review, data analysis techniques and interpretation, institutional review boards, and communicating the results. **When taught online the course will instruct health science and human services students in the role of research in interdisciplinary health studies.**

4432. **Theoretical Applications** 2(2-0)

Prerequisite: Senior respiratory care student.

This lecture class provides the student with an assessment of his/her educational strengths and weaknesses with respect to the practice of respiratory care. Topics include an assessment of the following examinations; ~~written registry, clinical simulations, and if time permits, pulmonary function technology. Passing the Certified Respiratory Therapist (CRT) examination and mock written registry and clinical simulation examinations are required in this class.~~ **therapist multiple-choice exam, clinical simulations, and if time permits, neonatal/pediatric exam. Passing mock written registry and clinical simulation examinations are required in this class.**

BSRC RRT-BSRC Degree Plan Update

Bachelor of Science in Respiratory Care Degree Plan for RRT to BSRC Students - 2014-2016 Catalog
COMMENTS: A minimum of 30 advanced (Jr/Sr level) semester hours are required of the total of 120 semester hours. Courses at MSU beginning with a 3 or 4 are advanced. Students MUST complete 12 semester hours at MSU from a particular catalog to graduate under that catalog. Students should keep a copy of this degree plan on file and update it periodically.

Other Specific Requirements	Cr. Hrs		
BIOL 2144 Microbiology	4		
CHEM 1303 Gen ORG/Biochemistry	3		
MAJOR (78 Sem. Hrs.)	Cr. Hrs	**Adv** Hrs	
RRT Professional Credit	41		
RESP 3543 Adult Critical Care	3		
RESP 3553 Neonatal & Pedi Resp	3		
RESP 3563 Resp Pathophysiology	3		
RESP 4123 Data Analysis	3		
RESP 4133 Dev Leadershp Capabilty	3		Select any 10 courses (30 HRS) *Education -Admin and Advance Practice may be taken twice
RESP 4153 Ethics of Resp Care	3		
RESP 4223 Education Theory	3		
RESP 4223 Education-Admin	3		
RESP 4223 Education-Admin	3		
RESP 4243 Advance Practice	3		
RESP 4243 Advance Practice	3		
RESP 4403 Pulmonary Diagnostics	3		
RESP 4423 Research & Resp Care	3		
RESP 4443 Mgmt of Health Services	3		
SUB-TOTAL 78		30	

BASIC CORE (42 Sem. Hrs.)	**Cr** Hrs	Transferred Credits & Substitutions: Course Prefix & #	Institution
GOVERNMENT/POLITICAL SCIENCE			
POLS 1333 American Government	3		
POLS 1433 American Government	3		
COMMUNICATION			
ENGL/SPCH 1103 Intro to Communication	3		
ENGL 1123 Composition & Rhetoric	3		
AMERICAN HISTORY			
HIST 1133 Amer. History to 1865	3		
HIST 1233 Amer. History since 1865	3		
MATHEMATICS			
College Level Math	3		
CREATIVE ARTS			
Fine Arts	3		
SOCIAL & BEHAVIORAL SCIENCE			
Psychology OR Sociology	3		
SCIENCE			
BIOL 1133 Anatomy & Physiology I	3		
BIOL 1233 Anatomy & Physiology II	3		
LANGUAGE, PHILOSOPHY, & CULTURE			
Humanities	3		
COMPONENT AREA			
Global (1)	3		
Global (2)	3		
☐ CORE COMPLETE SUB-TOTAL	42		

SUMMARY OF WORK REQUIRED FOR DEGREE	Cr. Hrs.	Adv. Hrs.
MAJOR	78	30
BASIC CORE	42	0
*WPE Completed		
TOTAL	120	30**

hours are required. *<u>IMPORTANT</u>: MUST TAKE AT LEAST 30 HOURS FROM MSU*

Social Work

Change of Course Title and Course Description, effective Fall 2014

SOWK 4413X. ~~Social Work in Human Resources~~ **Human Resources Policy and Practice**

Description: ~~This course addresses the role of social work, employee assistance, and human counselors in the workplace. The ways in which organizations assist troubled employees will be the major focus of the course. Organizational efforts to help troubled employees with family, mental health, alcohol, drug, financial, or other personal problems will be examined as to their effects on employee functioning and productivity. Laws affecting the civil rights of workers, including the Americans with Disabilities Act, the Rehabilitation Act, and Equal Employment Opportunity are covered.~~ **The purpose of this course is to provide students with the knowledge and skills necessary to practice in settings in which workplace performance, benefits, laws and policies are the focus of practice. Policies and laws related to sexual harassment, protected classes of employees such as racial, ethnic and other groups will be taught. This class is an introduction to the role of Social Work Services in Human Resource departments, in the United States military forces and civilian and military Employee Assistance Plans. The role of human resource professionals in screening, hiring and retaining staff and the laws that affect those functions will be covered. Motivation of employees, training, safety, health, fringe benefits, employee rights and the laws that pertain to these areas will be taught. Employee evaluation and assessment of workplace problems and improving the workplace performance of troubled or difficult employees through the use of employee assistance plans will be taught. Military specific workplace issues and interventions related to deployment, post traumatic stress disorder and death are included. Assessment of and intervention in substance dependence, critical incident stress debriefing and workplace violence will be addressed. This course is offered online only.**

Justification: The change in the course description adds military specific issues social workers need to be aware of. Lengthy and frequent wars in recent years have increased the need of military families for social work services. The new title will reflect improvements to comply with current CSWE standards.

5. Prothro-Yeager College of Humanities and Social Sciences

BAAS

Undergraduate Catalog Changes

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MISSION STATEMENT

The Bachelor of Applied Arts and Sciences (~~B.A.A.S~~. **BAAS**) degree is designed to offer students with workforce education, vocational-technical training and/or professional experience in occupational fields the opportunity to obtain a baccalaureate degree. Such experienced professional/vocational students may obtain credit toward this degree via regionally accredited college-level course work and/or certain types of professional and educational training. Students who pursue the degree are required to complete the academic core requirements, thirty-six hours of advanced credit that is complementary to the vocational-technical or professional area, and any additional hours necessary to meet the ~~122~~ **120**-hour university requirement as stated in the catalog.

ADMISSION TO PROGRAM

Before a student can be admitted, the student must arrange an interview with the Director or Assistant Director of the ~~B.A.A.S.~~ **BAAS** Program.

~~B.A.A.S.~~ **BAAS** students are limited to not more than twenty-five percent of their total semester credit hours in courses transferable to a program in a school of business and not more than fifteen semester credit hours in business school courses completed at Midwestern State University. However, students may select a minor in Business Administration with the approval of the Dean of the Dillard College of Business Administration.

Students currently enrolled at Midwestern State University in a designated degree program who satisfy the intent of the mission statement and have at least a 2.75 g.p.a. will be allowed to transfer to the ~~B.A.A.S.~~ **BAAS** degree program. Exceptions to this policy will be considered on an individual basis by the ~~B.A.A.S.~~ **BAAS** Director. In such cases, the student must submit to the ~~committee~~ **BAAS Director** ~~an application~~ **a petition** letter accompanied by a letter of recommendation from an advisor in the student's current major.

DEGREE REQUIREMENTS

All transfers from another MSU program must complete at least 12 hours under the ~~B.A.A.S.~~ **BAAS** program **at MSU** to be eligible to graduate from the ~~B.A.A.S.~~ **BAAS** program.

The student must complete a baccalaureate degree plan from residence and transfer credit hours by meeting the requirements as follows:

Option A: The Traditional ~~B.A.A.S.~~ **BAAS** Program

General (see page 89)
Academic Foundations and Core Curriculum (see page 91)

Occupational Specialty (~~24 36~~ **39** semester hours)
Credits toward an area of coherent specialization may be earned from community colleges, this university and other senior institutions **(including elective hours),** workforce education, vocational or technical schools, armed forces schools, work experiences, and non-traditional learning experiences that can be equated to college credit. To qualify for work experience credit, a student must have 3 consecutive years of full-time employment within the last 6 years. A student may be awarded 2 hours of credit for each qualifying year of job experience related to the student's occupational specialty up to a maximum of 6 hours. Credit for non-traditional experiences is granted on the basis of evaluation by the Director and the ~~B.A.A.S.~~ **BAAS** staff utilizing the National Guide of the American Council on Education (~~A.C.E.~~ **ACE**) and other appropriate publications. Documentation will be placed in the student's permanent file in the Office of the Registrar. A minimum of 24 semester hours in the area of occupational specialty must be completed before the student can be accepted into the program. Cognate vocational-technical courses may be accepted within the area of occupational specialty or professional development.

Computer Science (3 hours)

Professional Development (36 advanced semester hours that may include 3 hours of ~~B.A.A.S.~~ **BAAS** 3113 Internship and will include 3 hours of ~~B.A.A.S.~~ **BAAS** 4113 Capstone Project).
The courses taken in this area will be chosen on the basis that they will give academic depth or breadth to the area of specialization or will provide substantive developmental knowledge for the student's career or personal goals.

Option B: The ~~B.A.A.S.~~ **BAAS** Program with Criminal Justice Emphasis

The Criminal Justice ~~emphasis~~ **Emphasis** provides students the background to pursue employment options in the criminal justice career field. The combination of such courses as law enforcement, political science, psychology, sociology, and social work prepares those already working in the field for career advancement. For those wishing to enter a criminal justice field, the degree offers the graduate the possibility of employment in such career fields as federal, state, and local law enforcement, institutional and community-based corrections, and criminal investigations.

General (see page 89)
Academic Foundations and Core Curriculum (see page 91)

Occupational Specialty (~~24 36~~ **39** semester hours)
Credits toward an area of coherent specialization may be earned from community colleges, this university and other senior institutions **(including elective hours)**, workforce education, vocational or technical schools, armed forces schools, work experiences, and non-traditional learning experiences that can be equated to college credit. To qualify for work experience credit, a student must have 3 consecutive years of full-time employment within the last 6 years. A student may be awarded 2 hours of credit for each qualifying year of job experience related to the student's occupational specialty up to a maximum of 6 hours. Credit for non-traditional experiences is granted on the basis of evaluation by the Director and the ~~B.A.A.S.~~ **BAAS** staff utilizing the National Guide of the American Council on Education (~~A.C.E.~~ **ACE**) and other appropriate publications. Documentation will be placed in the student's permanent file in the Office of the Registrar. A minimum of 24 semester hours in the area of occupational specialty must be completed before the student can be accepted into the program. Cognate vocational-technical courses may be accepted within the area of occupational specialty or professional development.

Computer Science (3 hours)

Professional Development (36 advanced semester hours that may include 3 hours of ~~B.A.A.S.~~ **BAAS** 3113 Internship and will include 3 hours of ~~B.A.A.S.~~ **BAAS** 4113 Capstone Project).

The ~~B.A.A.S.~~ **BAAS** Criminal Justice ~~Option~~ **Emphasis** consists of 36 semester hours which must be chosen from the following courses:

BAAS 3113
BAAS 4113
~~CRJU 3103, 3113, 3123, 3133, CRJU/POLS 3213, CRJU 3223, 3313, 3323, 3463, 3713, 3723, CRJU/SOCL 3733, CRJU 3913, 3923, 4123, CRJU 4213, 4223, CRJU/POLS 4233, CRJU 4253, 4263, 4273, 4283, 4333, 4403, 4413, 4923~~
Any CRJU advanced courses except CRJU 4773, 4943, 4993
ENGL 3203
MCOM 4683
PHIL 3533
POLS **3213**, 3233, 3443, 3933, 4043, 4133, 4163, 4173, **4233**, 4243, 4653, 4953
PSYC 3913
SOCL 3333, 3353, 3433, **3733**, 4633
SOWK 3953, 4233, 4323, 4363
SPCH 3023

NOTE: The ~~B.A.A.S.~~ **BAAS** Criminal Justice Option Emphasis student may submit a petition to the ~~B.A.A.S.~~ **BAAS** program for permission to apply appropriate additional courses to fulfill the above 36 semester hour curriculum.

Option C: The ~~B.A.A.S.~~ **BAAS** Program with Liberal Arts Emphasis

The Liberal Arts ~~emphasis~~ **Emphasis** is a gateway program that provides students with the critical thinking tools for a lifetime of learning and career achievement. The program is designed to fulfill the needs of

students who wish to prepare for the challenges of today's world by acquiring the skills and tools provided by a broadly based liberal arts education. The goal of the program is to equip these students with that broad base of knowledge in the liberal arts and to provide them with the communication and language skills necessary for success in the marketplace and in life.

General (see page 89)
Academic Foundations and Core Curriculum (see page 91)

Occupational Specialty (~~24-36~~ **39** semester hours)
Credits toward an area of coherent specialization may be earned from community colleges, this university and other senior institutions **(including elective hours)**, workforce education, vocational or technical schools, armed forces schools, work experiences, and non-traditional learning experiences that can be equated to college credit. To qualify for work experience credit, a student must have 3 consecutive years of full-time employment within the last 6 years. A student may be awarded 2 hours of credit for each qualifying year of job experience related to the student's occupational specialty up to a maximum of 6 hours. Credit for non-traditional experiences is granted on the basis of evaluation by the Director and the ~~B.A.A.S.~~ **BAAS** staff utilizing the National Guide of the American Council on Education (~~A.C.E.~~ **ACE**) and other appropriate publications. Documentation will be placed in the student's permanent file in the Office of the Registrar. A minimum of 24 semester hours in the area of occupational specialty must be completed before the student can be accepted into the program. Cognate vocational-technical courses may be accepted within the area of occupational specialty or professional development.

Computer Science (3 hours)

Professional Development (36 advanced semester hours ~~that may include 3 hours of B.A.A.S. 3113 Internship and~~ **from the Prothro-Yeager College of Humanities and Social Sciences which** will include 3 hours of ~~B.A.A.S.~~ **BAAS** 4113 Capstone Project).

~~The Liberal Arts Option Emphasis is 36 advanced semester hours chosen from the following:~~
~~1. Two courses chosen from *any four* of the following six categories for a *total* of *twenty-four advanced hours.*~~
~~2. An *additional twelve six to nine advanced hours* of courses chosen from any of the six subject areas listed below.~~
~~English Political Science~~
~~History and Geography Psychology~~
~~Humanities/Philosophy Sociology~~

~~NOTE: Any B.A.A.S. student may petition to apply upper division foreign language courses to the above option; approval must be obtained from the B.A.A.S. program.~~

Option D: The BAAS Program with Adult Education Emphasis

The Adult Education Emphasis is a gateway program that provides students with the background to serve an organization in the area of training and development for adults. The course work combines strategies in adult learning, instructional system designs, best practice**s** for adult learners regarding curriculum development, mentoring and the integration of technology into the training and development process. A graduate would be prepared for a career in training and development for the military, civil service, business, or industry.

General (see page 89)
Academic Foundation and Core Curriculum (see page 91)

Occupational Specialty (~~24-36~~ **39** semester hours)
Credits toward an area of coherent specialization may be earned from community colleges, this university and other senior institutions **(including elective hours)**, workforce education, vocational or technical

schools, armed forces schools, work experiences, and non-traditional learning experiences that can be equated to college credit. To qualify for work experience credit, a student must have 3 consecutive years of full-time employment within the last 6 years. A student may be awarded 2 hours of credit for each qualifying year of job experience related to the student's occupational specialty up to a maximum of 6 hours. Credit for non-traditional experiences is granted on the basis of evaluation by the Director and the ~~B.A.A.S.~~ **BAAS** staff utilizing the National Guide of the American Council on Education (~~A.C.E.~~ **ACE**) and other appropriate publications. Documentation will be placed in the student's permanent file in the Office of the Registrar. A minimum of 24 semester hours in the area of occupational specialty must be completed before the student can be accepted into the program. Cognate vocational technical courses may be accepted within the area of occupational specialty or professional development.

Computer Science (3 hours)

No changes until…

COURSES IN APPLIED ARTS AND SCIENCES (BAAS)
3113. Internship in Public Administration 3(0-3)
Prerequisite: Junior standing.
Students will work in approved employment situations that can be demonstrated to be an integral learning portion of their career development education. Student performance will be reviewed by employers and by the Director of the ~~B.A.A.S.~~ **BAAS** program. Applications for the in**ternship require the approval of the ~~B.A.A.S.~~ BAAS Director or an Academic Advisor. ~~B.A.A.S.~~** BAAS students enrolled in the internship should keep a journal documenting the internship, noting the tasks undertaken, and assessing how those tasks are applicable to current employment and future career goals. From that journal students will write an internship report.

4113. Capstone Project 3(0-3)
Prerequisite: Senior standing.
~~Working with a B.A.A.S. advisor, each student~~ **Students** will produce a capstone portfolio as the culminating activity to his/her ~~B.A.A.S.~~ **BAAS** work. The capstone course is designed to help the student assess the educational experience in relation to career goals and the application of educational concepts to those goals. Although the portfolio should be considered a "work in progress" from the student's first enrollment in the ~~B.A.A.S.~~ **BAAS** program, the student will enroll in ~~B.A.A.S.~~ **BAAS 4113** only once - ~~typically when completion of all requirements can be accomplished~~ during the **last** enrolled semester.

English

Department Name Change Request

The faculty members in English, humanities, and philosophy request that the Department of English be renamed the **Department of English, Humanities, and Philosophy.**

The new title more accurately reflects who we are (thirteen full-time English faculty, two full-time humanities faculty, and two full-time philosophy faculty) and what we offer: curricula leading to BA degrees in English or humanities, the MA degree in English, and minors in English, humanities, or philosophy. Also, including humanities and philosophy in the new title reinforces Midwestern's designation as a COPLAC institution.

English Undergraduate Course Changes, effective Fall 2014
New Course Additions

ENGL 1143. Academic Research and Writing
Description: This course provides training in rhetoric, including skills involved in the writing process through composition and reading with the addition of particular skills needed for thoughtful research, from selection and analysis to integration and documentation of both print and electronic sources. Students will be required to prepare a research paper of moderate length demonstrating these skills.

Lecture 3(3-0)
Course Objectives and/or additional information:
- **Apply knowledge of rhetoric to make decisions about written communication**
- **Engage in a writing process that includes invention, drafting, and revision**
- **Write thesis-based academic arguments that provide strong support and specific details**
- **Find, evaluate, and synthesize credible sources in support of a research paper**
- **Use sources ethically and in contextually appropriate ways and follow a designated style guide**
- **Demonstrate proficient use of Standard Written English**

ENGL 1153. Introduction to Reading and Writing about Literature
Description: This course will provide students an opportunity to develop critical reading and literary analysis skills in order to achieve deeper understanding of literary texts. Students will explore the various factors informing the production of written texts and learn how to conduct literary research in order to gain experience exploring different perspectives on select literary works and themes. The course will include several opportunities for students to articulate their interpretations and insights in essay assignments, which will be assessed for clarity, insight, and understanding.
Lecture 3(3-0)
Course Objectives and/or additional information:
- **Read various literary texts united by a common theme or topic**
- **Apply knowledge of literary analysis to interpret literary texts**
- **Engage in a writing process that includes invention, drafting, and revision**
- **Write various genres of academic essays**
- **Find, evaluate, and synthesize credible sources in support of a research paper**
- **Use sources ethically and in contextually appropriate ways and follow a designated style guide**
- **Demonstrate proficient use of Standard Written English**

ENGL 2203. Introduction to Professional Writing
Description: Introduction to Professional Writing introduces students to professional writing concepts. Students will engage core writing principles (audience analysis, research, document design, technical editing, and ethical composing practices) to create accessible, user friendly documents for a variety of audiences.
Lecture 3(3-0)
Course Objectives and/or additional information:
A student completing ENGL 2203 will
- **learn strategies and methods to write effectively as a professional in the workplace**
- **acquire knowledge of different professional writing genres for a variety of careers**
- **analyze audience in order to make rhetorical decisions**
- **acquire and demonstrate document and information design skills**
- **compose concise, coherent, and clear documents following rules for Standard English**

ENGL 2223. Professional Writing for Business
Prerequisites: Communication Core
Description: Professional Writing for Business is designed for business majors. An introduction to and application of professional workplace genres. Practice in planning, designing, developing, producing, and evaluating business communications. Rhetorical aims will shape the information or document production and design.
Lecture 3(3-0)
Course Objectives and/or additional information:
Students completing ENGL 2223 will
- **acquire knowledge of different business genres**
- **practice writing in the different business genres, including memos, letters, emails, reports, and correspondence for job search**
- **analyze audience in order to make rhetorical decisions**

- **use correct language structure, punctuation, and grammar in oral and written forms**
- **exhibit an understanding of cultural differences**

ENGL 3023. Elementary Composition Pedagogies and Practices
Prerequisites: Communication Core
Description: An introduction to the theories of elementary composition. Focus on Writing Across the Curriculum, pedagogies and practices, in the lower grades.
Lecture 3(3-0)
Course Objectives and/or additional information:
Students completing ENGL 3013 will

- **understand the relevance and value of writing to learn in various subject areas**
- **gain knowledge of writing as a skill across content areas**
- **acquire a basic understanding of composition pedagogies**
- **learn different strategies for creating and assessing appropriate writing assignments in the EC-6 classroom**

ENGL 4001. Senior Capstone
Prerequisite: For English majors in their final semester
Description: A class that will meet for ten hours and include assignments that will help the English department assess the quality of the undergraduate English program – curriculum, knowledge acquisition, teaching, and advising.
Practicum 1(1-0)
Course Objectives and/or additional information:
Students will:

- **Demonstrate their knowledge of the canon**
- **Synthesize knowledge about the canon**
- **Apply different analytical approaches**
- **Demonstrate proficiency using MLA**

English Undergraduate Catalog Changes

Major
(~~30~~ **31** semester hours exclusive of 1113 and 1123) Six hours sophomore literature; three hours chosen from language courses 3513, 4513, 4523, 4753, 4763; three hours chosen from 3000 level courses; nine hours chosen from 4000 level courses; and nine hours English electives (excluding 2113) ; **and**
ENGL 4001

Writing Proficiency Requirement
Revised Policy Statement

No changes until…
Who May Take the Exam. Students may take the exam only after completing 60 semester hour of university credit (junior standing) and only after completing **six hours of Communication core curriculum.** Students may take the exam only once. A registration hold will be placed on the record of any student who has not passed the Writing Proficiency Examination or ENGL 2113 by the end of the semester in which he or she completes 90 semester credit hours. The hold will be lifted only after the Writing Proficiency Requirement has been satisfied by either passing the exam or ENGL 2113. Any student with credit for more than 90 semester hours who enrolls in and subsequently withdraws from or is withdrawn from ENGL 2113 will not be allowed to enroll in any course except 2113 until the Writing Proficiency Requirement is met.

No changes until…
ENGL 2113: Composition Skills
Nature of the Course. ENGL 2113: Composition Skills is designed to help students develop their skills in clear and forceful composition and in standard usage. Passing the course requires passing a final test in

usage and writing a satisfactory final essay graded by the same standards as the Writing Proficiency Examination.
Who May Take the Course. Students may enroll in ENGL 2113: Composition Skills after completing 60 semester hours of university credit (junior standing) and after **completing six hours of Communication core curriculum.** Passing ENGL 2113 fulfills the Writing Proficiency Requirement. Students who fail the Writing Proficiency Examination must enroll in and pass ENGL 2113 to fulfill the Writing Proficiency

Philosophy

Philosophy Catalog Changes

Currently on page 92:
PHIL 1033, 1533, 2033, ~~2233~~, ~~2633~~
PROPOSED REVISIONS: PHIL 1033, 2033

Currently on page 298:
Philosophy: ~~2233~~ **3033** or 3233

Currently on page 302:
Philosophy 1033, 2033, three hours of coursework in the history of philosophy (~~2233~~, ~~2633~~, **3033, 3133,** 3233, or 3333), and nine additional semester hours of which six must be advanced.

Currently on page 303:
~~2233. Classical Philosophy (TCCNS = PHIL 2316) 3(3-0)~~
~~Prerequisites: English 1113, 1123, and three hours of philosophy, or permission of philosophy advisor.~~
~~A study of the pre-Socratics, Plato, and Aristotle. Discussion of the contemporary uses of classical philosophy.~~

PROPOSED REVISIONS:
3033. **Ancient Philosophy** 3(3-0)
Prerequisites: English 1113, 1123, and three hours of philosophy, or permission of philosophy advisor.
A critical exploration of the philosophy of ancient Greece, with emphasis on the pre-Socratics, Plato, and Aristotle.

~~2633. **Contemporary Philosophy** (formerly 3433) (TCCNS = PHIL 2318) 3(3-0)~~
~~Prerequisites: English 1113, 1123, and three hours of philosophy, or permission of philosophy advisor.~~
~~Twentieth-century philosophers, including the methods and history of the various movements.~~

PROPOSED REVISIONS:

3133. **Continental Philosophy** ~~(TCCNS = PHIL 2318)~~ 3(3-0)
Prerequisites: English 1113, 1123, and three hours of philosophy, or permission of philosophy advisor.
A historical and theoretical survey of modern continental philosophy.

Political Science
Political Science Undergraduate Course Changes

New Course Addition, effective Fall 2014
INST 2503. Introduction to Global Studies
Description: INTS 2503 introduces students to the study of globalization and world transformation. The major political, economic, social, historical and cultural accounts of globalization will be examined from various disciplinary theoretical frameworks in order to develop a deeper awareness of the processes producing social conflict and change.
Lecture 3(3-0)
Course Objectives and/or additional information:

- Develop Critical Thinking Skills
- Develop Effective Communication Skills
- Promote Personal Responsibility
- Promote Social Responsibility

Political Science Undergraduate Catalog Changes

Program Requirements
Major (30 semester hours)
Political Science 1333, 1433, 2523, 3213; 3 hours from 3313, 4153, 4553; 3 hours from 3533, 3543, 3553, 3563, 3673, 3583, 3593, 4453; 3 hours from 3653, 4333, 4653, 4773, 4853; 3 hours from 3933, 4133, 4173, 4233, 4343, 4953; 3 hours from 3233, 3443, 3843, 4043, 4163, ~~4443~~, 4463; and 3 additional advanced hours. POLS 4903, 4933, and 4973 can be used to fulfill cluster requirements based on their subject matter in a given semester.

No changes until…

COURSES IN POLITICAL SCIENCE

3933. The Judicial System and ~~Process~~ **Politics**
Prerequisites: Six hours of political science
~~A study of the American judicial system and process at the local, state, and national levels. Topics include judicial selection and judicial policy making.~~

4043. ~~Legislation~~ **Congress** (formerly 4013)
Prerequisites: Six hours of political science.
~~A study of the role of Congress and the state legislature in the American system.~~

4233. ~~American~~ Constitutional Law
Prerequisites: Six hours of political science.
~~The development of the Constitution through the interpretations of the Supreme Court.~~

4243. ~~American Constitutional Law II~~ **Civil Rights and Civil Liberties**
Prerequisites: Six hours of political science.
~~A continuation of Political Science 4233. Additional cases in constitutional development. A study of civil rights and civil liberties.~~

~~4443. Black Politics~~
~~Prerequisites: Six hours of political science.~~
~~An examination of the political behavior of Black Americans in the United States by focusing on the relationship between Black Americans and the various actors, institutions and processes of the American Political System. Special emphasis on contemporary problems, trends, and developments of Black Politics.~~

Sociology
Sociology Undergraduate Course Changes

New Course Addition, effective Fall 2015

SOCL 1143. Sociological Inquiry
Description: This course examines the means that sociologists gather information about social phenomena. Instead of simply teaching the student what the sociologist knows, this class will teach the student how we know what we know. This course assumes no prior sociological or research methods background. The course will cover the scientific method as well as quantitative and qualitative methodologies with special emphasis on gathering information that is trustworthy and useful for a theoretical understanding of social life.
Lecture 3(3-0)
Course Objectives and/or additional information:

- **Students will demonstrate an understanding of the importance of research through empirical analysis of data resulting in informed understandings of current social problems.**
- **Students will display effective communication skills.**
- **Students will be able to apply sociological theory and research to the mass media in the postindustrial age of information and consumerism.**
- **Via research methods and content, students will critically analyze how their everyday lives are affected by culture and social forces at the local, national, and global levels.**

Change of Course Title, effective ~~Fall 2014~~ **Fall 2015** *(new core – title change won't go in effect until Fall 2015 after changes to the new core can be submitted to the THECB)*

SOCL 2233. **Global** Social Problems

6. College of Science and Mathematics

Biology

Deletion of Undergraduate Course, effective Fall 2014

BIOL 3133. Wildlife Management

Biology Undergraduate Catalog Changes

BIOLOGY
William B. Cook, Chair (Bolin Hall 218D)
Professors: Cook, **Little**, Rincón-Zachary
Associate Professors: **Masuoka**, Shipley, Vogtsberger
Assistant Professors: ~~Masuoka, Mills~~, Scales, **Watson, Willis**
Instructors: Javed, **Machunis-Masuoka**
Professors Emeriti: Grimes, Horner, Scott, Stangl

MISSION STATEMENT FOR THE DEPARTMENT OF BIOLOGY

No changes until…

The requirements for the degree of Bachelor of Science with a major in biology may be satisfied in any of ~~four~~ **five** areas of emphasis.

A. Molecular-cellular option
B. Organismal option
C. Pre-Professional I (pre-medicine, pre-dentistry, pre-veterinary) option
D. Pre-Professional II (pre-physical therapy) option
E. Clinical Laboratory Science

General (see page 89)
~~Academic Foundations and~~ **Core Curriculum** (all options see page 91)
Major
Option A

~~Biology~~ **BIOL** 1144, 1544, 3054, 3064, 3334, 4001, 4714 or 4231 and 4233, 3 advanced hours in both botany1 and zoology2; ~~3~~ **6** additional advanced hours (~~34~~ **37** hours)

Option B

~~Biology~~ **BIOL** 1144, 1544, 3054, 3064, 3113 or 3044, 3334, 4001, 4143, 4684; 3 advanced hours in both botany1 and zoology2; 12 additional advanced hours (**49**~~-~~**50** hours)

Option C

~~Biology~~ **BIOL** 1144, 1544, 3054, 3064, 3144, 3334, 4001; ~~8~~ **16** additional advanced hours (~~37~~ **33-41** hours)

Option D

1 Advanced Botany: BIOL 3534, 4463, ~~and~~ 4564.

~~Biology~~ **BIOL** 1144, 1544, 3054, 3064, **3144, 3234,** 3334, 4001; 3 advanced hours in both botany1 and zoology2; ~~12~~ **3** additional advanced hours (~~39~~ **38** hours)

Option E1

BIOL 1144, 1544, ~~2144~~, 3003, 3054, 3064, 3334, 4001, 4023 (~~31~~ 27 hours)

Option E2

BIOL 1144, 1544, ~~2144~~, 3003, 3054, 3064, 3334, 4001, 4023; ~~14 additional hours from approved BIOL and CHEM electives3~~ (~~46~~ 27 hours)

1Advanced Botany: BIOL 3534, 4463, and 4564.

2Advanced Zoology 3024, 3033, 3133, 3234, 3344, 3434, 3644, **4033**, and 4524.

Program Requirements (see Options, above)

Option A

CHEM 1141, 1143, 1241, 1243, 2001, 2003, 2011, 2013, 3603, 4243**, and 4253 or STAT 3573**; **CMPS 1013 or 1023**; MATH ~~1433 or 1534~~, 1634, 1734, 2534**, 2603**; PHYS 1624, 2644

Option B

CHEM 1141, 1143, 1241, 1243, 2001, 2003; **CMPS 1013 or 1023, GEOS 1234,** MATH 1433 **or 1534**; PHYS 1144, 1244; STAT 3573 or PSYC 3314

Option C

CHEM 1141, 1143, 1241, 1243, 2001, 2003, 2011, 2013, 4243, 4253; MATH 1433 or 1534; PHYS 1144, 1244; STAT 3573, **and 11-17 hours from BIOL 2144, CMPS 1013 or 1023, ECON 1333 or 2333, MATH 1634, PHYS 1244, SPCH 1133**

Option D

ATRN 2433, CHEM 1141, 1143, 1241, 1243, 2001, 2003; **CMPS 1013 or 1023**, **ENGL 3203**, MATH 1433 **or 1534**; PHYS 1144, 1244; STAT 3573 or PSYC 3314; PSYC 2203, 3233, 3603

Option E1

BIOL 2144; CHEM 1141, 1143, 1241, 1243, 2001, 2003, 3305; CMPS 1013 or 1023, STAT 3573; Hospital- or University-based Practicum

Option E2

BIOL 2144; CHEM 1141, 1143, 1241, 1243, 2001, 2003, 3305; CMPS 1013 or 1023, MATH 1433 or 1534; PHYS 1144, 1244; STAT 3573; 18 additional hours from approved BIOL and CHEM electives3

3Approved electives: BIOL 3144, 3234, 3534, 3644, 4444, 4524; CHEM 2001 and 2003, 3405, 4242, 4243, 4253

~~Foreign Language 1134 and 1234 are required for options A-DE.~~

REQUIREMENTS FOR A MINOR IN BIOLOGY (20 semester hours)

Biology 1144, 1544, 3104 (or 3334 with permission of instructor), and an additional **8** semester hours, of which 3 must be advanced. Courses must be selected in consultation with chair.

COURSES IN BIOLOGY (BIOL)

No changes until...

2144. **Microbiology** ~~(formerly 3004)~~ (TCCNS = BIOL 2420) 4(3-3)
Prerequisites: BIOL 1134, 1234, and CHEM 1303.
Introduction to the study of medically important bacteria, protozoa, viruses, helminths, and fungi. May not be applied to biology major.

3003. **Introduction to Clinical Laboratory Science** ~~(formerly 1113)~~ 3(2-2)
Prerequisites: BIOL 1234, 2144, CHEM 1241, 1243, and permission of instructor.
Prepares students in the CLSC program for clinical training. Introduction to medical technologies, professional ethics, and the major disciplines in clinical laboratory sciences. Basic laboratory procedures and correlation of test results with common disease states.

~~3133. **Wildlife Management** 3(3-0)~~
~~Prerequisites: One year of biology.~~
~~Recognition, distribution, and importance of game birds, mammals, and fish of the United States. Principles of management of wildlife resources. The commercial freshwater fishery and fur industry. Non-game wildlife.~~

3344. **Developmental Biology** ~~(formerly 3343)~~ 4(3-3)
Prerequisites: BIOL 3054, 3064, and 3334.
Embryogenesis, including fertilization, embryonic patterning, and organogenesis, emphasizing molecular mechanisms. Laboratory overview of classical embryology, introduction to current techniques, and survey of primary literature.

SCIENCE
The Department of Biology also offers a course under the designation of science.
COURSE IN SCIENCE (SCIE)
~~4900. Research Orientation~~
~~Prerequisites: Admission into the Undergraduate Research Opportunity and Summer Workshop (UGROW).~~
~~An introduction to research topics and methodologies in the basic and applied sciences.~~
[*Moved to a new location*]

~~CLINICAL LABORATORY SCIENCE~~
~~Asma Javed, Coordinator (Bolin Hall 220B)~~
~~The Bachelor of Science in Clinical Laboratory Science degree consists of 130 semester hours. Upon successful completion of an AMA approved curriculum, the student is eligible to take the National Certification examinations for Medical Technologists.~~
~~This is a special academic program that has a separate academic foundations curriculum.~~
~~(See page 100.)~~
~~Basic Core (27 semester hours)~~
~~Political Science 1333, 1433~~
~~English 1113, 1123~~
~~Mathematics 1233~~
~~History 1133, 1233~~
~~Speech Communication - 3 hours~~
~~Demonstrate computer literacy by taking a proficiency test or earning credit for CMPS 1013, 1023, 1033, 1044, or EDUC 1023.~~
~~Additional 18 hours~~
~~Select from at least four of the following areas: Social and Behavioral Sciences, Sciences, Fine Arts, Speech Communication (cannot be same course used in Basic Core), Humanities, Economics, and Exercise Physiology.~~
~~NOTE: BSCL students may choose 12 hours from three of the areas listed above and count the other 6 hours from the sciences below.~~
~~Major - CLINICAL LABORATORY SCIENCE~~
~~Academic Course Work (50 semester hours)~~
~~Biology 1144; 1134 and 1234; 2144, 3003, 4023~~
~~Chemistry 1141, 1143, 1241, 1243, 2001, 2003; 3305~~
~~Statistics 3573~~
~~Additional hours to be selected from Biology or Chemistry to bring total to 50 hours.~~
~~Practicum (41 semester hours)~~
~~Successful completion of a clinical practicum in a medical technology program approved by the Committee on Allied Health Education and Accreditation of the American Medical Association. Forty-one advanced semester hours are awarded in the following areas of instruction: hematology, chemistry, urinalysis, serology, microbiology, blood banking, laboratory rotation.~~

~~The coordinator The coordinator of the clinical laboratory science program will receive and approve syllabi and text materials describing the content of the clinical phase of the clinical laboratory science program. Additionally, the coordinator will review test materials and routinely observe the student in the clinical setting before practicum credit is validated. Practicum credit will be posted upon written approval of the University's coordinator of the clinical laboratory science program.~~
[*Incorporated into the Department of Biology*]

Chemistry
Chemistry Undergraduate Course Changes, effective Fall 2014

Deletion of Undergraduate Courses effective Fall 2014
CHEM 1101. Introductory Chemistry Laboratory

CHEM 4353. Quantum Physics

CHEM 4503. Environmental Chemical Technology

Change of Course Prerequisite
CHEM 1143. General Chemistry
Prerequisites: Credit or concurrent enrollment in MATH 1233 or MATH 1534 and High School Chemistry or CHEM 1103 within 5 years

Chemistry Undergraduate Catalog Changes

Currently on page 326:
Requirements common to both optional degree plans:
MATH 1233 and 1433 or MATH 1534; MATH 1634 and 1734; MATH 2603; PHYS 1624 and 2644~~; and one year of a foreign language~~. (MATH 2603-Math for Thermodynamics must be completed in the spring before Physical Chemistry I.)

Computer Science
Computer Science Undergraduate Catalog Changes

COMPUTER SCIENCE

Ranette H. Halverson, Chair (Bolin Hall 126A)
Professors: Donovan, Halverson, Passos, Stringfellow
Assistant Professors: Griffin, Johnson, Simpson
Instructor: Seals
Professor Emeritus: Carpenter

Program Requirements

Major
Computer Science 1044, 1063, 2084, 2143, 2433, 3013, 3023, 3233, 4103, 4113, 4143, 4991, and ~~15~~ **18** hours of ~~advanced~~ computer science electives (**15 advanced)**. (Computer Science 1013, 1023, and 1033 may not be counted toward a major in Computer Science.)

Minor is not required.

Additional Requirements
MATH 1534, 1634, 1734, and 3 hours from 3533, 3833, or 4243
PHYS 1624, 2644
ECON 1333 or 2333
Computer Science Exit Exam
Electives as necessary to complete 120 hours

The requirements for the degree of Bachelor of Arts with a major in computer science are as follows:

General (see page 89)
Academic Foundations and Core Curriculum (see page 91)
Bachelor of Arts (see page 93)

Program Requirements

Major
Computer Science 1044, 1063, 2084, 2143, 2433, 3013, 3023, 3233, 4103, 4113, 4143, 4991, and ~~15~~ **18** hours of ~~advanced~~ computer science electives (**15 advanced).** (Computer Science 1013, 1023, and 1033 may not be counted toward a major in Computer Science.)

Minor is not required.

Additional Requirements
MATH 1233, 1433
STAT 3573
ECON 1333 or 2333
SCIE 2103
Computer Science Exit Exam
Electives as necessary to complete 120 total hours and 39 advanced

Minor in Computer Science

The requirements for a minor in computer science are Computer Science 1044, 1063, ~~2084,~~ 2143, 2433, 3013, and 6 hours of computer science electives (3 advanced).

COURSES IN COMPUTER SCIENCE (CMPS)

1013. Computer Concepts and Applications (TCCNS = COSC 1301) 3(2-2)
An introduction to common software applications and computer terminology across a wide variety of disciplines, building a framework for computer use in a technological world. Emphasis is placed on lifelong learning and application of computers to everyday problems through software tools and online techniques. Contemporary topics in the area of computers, technology, and ethical issues are also included. ~~Satisfies the general degree requirement for computer literacy.~~

~~1053. **Computer Science II** (TCCNS = COSC 2320) 3(3-0)~~
~~Prerequisites: Minimum grades of C in CMPS 1044 and MATH 1233 or 1534 or MATH 1203.~~
~~A continuation of the development of a disciplined approach to the design, coding, debugging, and testing of programs. Introduction to algorithmic analysis, recursion, data structures, and sorting mechanisms using a high-level language.~~

~~2133. **Data Structures** 3(3-0)~~
~~Prerequisites: MATH 2333 and minimum grade of C in CMPS 1053.~~
~~Object-oriented approach to design and analysis of algorithms, particularly those related to the processing of data structures, including trees, graphs, and linked lists. Other techniques include searching, sorting, and merging. Discussion of legal, social, and ethical issues.~~

Geosciences
Geosciences Undergraduate Course Changes, effective Fall 2014

New Course Additions

GEOS 3824. Field Methods
Prerequisites: GEOS 3234 or GEOS 3434 or GEOS 4534 or the approval of the instructor
Description: The course is a formal introduction to field identification, geological mapping, cross-section construction, and stratigraphic measurement conducted in the region (north Texas, southern

Oklahoma). This course will provide additional preparation for GEOS 3836, Field Geology, as well as foster important problem-solving skills. The class introduces students to orienteering and collecting field observations on lithology, stratigraphy, and structural attitudes. Students will analyze data, and prepare geologic maps and cross sections. Students will evaluate and compare settings within the region.
Lecture/Lab 4(1-6)
Course Objectives and/or additional information:
Students will learn:

1. **traditional field skills (e.g., outcrop analysis, use of a pocket transit, orienteering, geologic mapping)**
2. **modern assessment tools (e.g., satellite imaging, g.p.s., digital relief models, and geophysical data)**
3. **preparation methods for field reports, cross sections, and mapping**
4. **scaling and representation of geologic phenomena**
5. **the nature and origin of geologic features in the region**

Change of Course Description

GEOS 4534. Sedimentology and Stratigraphy
Description: Analysis of depositional environments based on the physical and chemical formation of sediment, the physics of sediment transport, and post-depositional diagenetic changes. Also includes the study and interpretation of stratified sedimentary rocks, including their identification, description, and modes of origin. Fundamental principles of lithostratigraphic and sequence stratigraphic analysis, mapping, and correlation are also presented. **Includes required field trip to the Guadalupe Mountains to learn stratigraphy field techniques**

Geosciences Undergraduate Catalog Changes

Robert L. Bolin Distinguished Professor of Geosciences: Meddaugh
Associate Professor: Dodge
Assistant Professor: Price
Assistant Professor: Carlucci
Professor Emeritus: Kocurko

MISSION STATEMENT FOR THE GEOSCIENCES PROGRAM

The Geosciences Program provides students with a comprehensive education that prepares them for a variety of employment opportunities as well as graduate school. Degrees incorporate field and classroom experience, with courses that offer the most current technology, information, and research techniques available. Students graduate with skills that enable them to utilize equipment, think critically, and interact effectively.

The requirements for the degree of Bachelor of Science Degree with a major in Geosciences may be satisfied through either the Environmental Science track or the Geosciences track.
General: (see page 89)
Academic Foundations and Core Curriculum: (see page 91)
Bachelor of Science: (see page 93)
ENVIRONMENTAL SCIENCE TRACK
Major:
Interdisciplinary - ENSC 1114, 3103, 4103; BIOL 1144, 1544, 3104; CHEM 1141, 1143, 1241, 1243, 3504; GEOS 1134, 3634, 4001.
Options (must choose one):
Option A – Biology: BIOL **3033**, 3534, 4684, plus 7 additional hours
Option B – Chemistry: CHEM 3305, 4505, plus 8 additional hours
Option C – Geosciences: GEOS 1234, **3034**, 3134, 4233, plus **3** additional hours
Program Requirements:
PHYS 1144 and 1244; MATH 1433 or 1534, 1634; STAT 3573; one year of a single foreign language.
GEOSCIENCES TRACK

Major:
GEOS 1134, 1234, 3134, 3234, 3434, **3533**, 3534, 3734, 3836, 4001, **4533**, 4534.

Currently on page 331
Program Requirements:
CHEM 1141, 1143, 1241, 1243; PHYS 1144, 1244 or 1624, 2644; MATH 1634 and 1734; **STAT 3573**; one year of a single foreign language.
Electives:
Additional courses: at least 7 hours are required from elective courses. GEOS 3034; 3424; 3634; 3824, 4034; 4134; 4233

COURSES IN ENVIRONMENTAL SCIENCE (ENSC)

1234. Historical Geology (formerly 1233) (TCCNS = GEOL 1404) 4(3-2)
Formation of the Earth and the evolution of its origins to the present, plate tectonics, mountain building, and major evolutionary events. **Special focus is placed on integrating geologic and biologic concepts through Earth history.**

3034. Oceanography (formerly 3133) 4(3-2)
Prerequisites: GEOS 1134 or 1234 or BIOL 1144; or GNSC 1104 and 1204; or consent of the instructor.
An introduction to the physical, chemical, geological, and biological processes of the oceans. **Integration of tectonic, biologic, ecologic and chemical processes will be stressed. Topics include bathymetry, ocean currents, hurricanes, atmospheric circulation, chemical cycles, marine biology and the history of ocean exploration. Labs include analysis of NASA and NOAA datasets.**
An examination of the characteristics and origins of igneous, sedimentary, and metamorphic rocks, including the application of experimental and theoretical studies of rock genesis. Laboratory work emphasizes the systematic description, classification, and identification of rocks in hand specimen and thin section.

3424. Geology of the Solar System 4(3-3)
Prerequisite: GEOS 1134 or consent of the instructor.
Features comparative geology of the terrestrial (Mars, Mercury, Venus, and Earth) and jovian planets (Jupiter, Saturn, Uranus, Neptune) and their associated moons. The class emphasizes the development of the solar system and how the geological observations we make today inform us of the past. Additional topics include: sedimentary rocks on Mars, impact cratering, volcanism, tectonism, geomorphology, remote sensing, and unmanned space exploration.

3533. Solid Earth and Exploration Geophysics 3 (3-1)
Prerequisites: GEOS 1134 and PHYS 1244 or PHYS 2644; or consent of instructor
An introduction to solid earth geophysics and exploration geophysics. Includes the theory and application of various geophysical methods including seismic, gravity, and magnetic methods to understanding the structure of the earth (including earthquakes and plate movement), to oil and gas exploration, mineral deposit exploration, and environmental assessment. Laboratory sessions focus on data processing and interpretation as well as hands-on use of some of the geophysical methods. Course may include a half or full day field trip to gather a data set for processing and interpretation.

3534. **Invertebrate Paleobiology** 4(3-2)
Prerequisite: GEOS 1234 or BIOL 1144.
An introduction to quantitative, theoretical and descriptive invertebrate paleobiology. Topics include speciation, extinction, paleoecology, biostratigraphy, and systematics. **Laboratory emphasizes hands-on analysis of fossil specimens and applied biostratigraphy. Includes a field trip to the Arbuckle Mountains and Sam Noble Museum of Natural History.**

4034. Petroleum Geology 4 (3-2)

Prerequisites: GEOS 1134, 3134, and 3434; or consent of the instructor.
An introduction to the geology of petroleum and natural gas. Topics include the origin, occurrence, movement, and accumulation of oil and natural gas and the exploration for and development of hydrocarbon reservoirs. Additional topics include geophysical and geochemical exploration techniques, basin analysis, well site operations, representative exploration and reservoir development case histories, and subsurface geology of CO2 sequestration. Fundamental skills routinely used by petroleum geologists, such as basic well log analysis, well correlation, cross section construction, mapping, and volumetric calculations are the major lab session topics.

4134. Applied Petroleum Geology 4 (3-2)
Prerequisites: GEOS 1134, 3134, and 3434; or consent of the instructor.
Using the reservoir lifecycle as a unifying theme, this course focuses on practical aspects of reservoir characterization, geological modeling, and dynamic forecasting for oil and gas reservoirs. Major topics are (1) interpretation and integration of reservoir data obtained from well logs, cores, reservoir fluids, and seismic data and (2) building and using geological reservoir models to assess hydrocarbon in place volumes within a probabilistic framework. Additional topics include basic reservoir engineering concepts and tools, reserves calculation, the use decision analysis for value of information (VOI) and economic decisions, reservoir development planning, and reservoir monitoring techniques.

4533. Economic Geology 3 (3-1)
Prerequisites: GEOS 3234 or consent of instructor
An introduction to the formation and occurrence of metallic mineral deposits, non-metallic mineral deposits, oil and gas reservoirs, geothermal reservoirs, coal deposits, and building material deposits. Additional topics include an overview of surface and underground mining and mine planning, ore reserve estimation, and mineral economics. Laboratory sessions focus on identification of important ore minerals, the interpretation and use of mineral textures (macro and microscopic) to understand ore formation processes, and methodology for evaluating ore deposits and calculating reserves.

4534. **Sedimentology and Stratigraphy** 4(3-2)
Prerequisites: GEOS 1134 and 1234.
Analysis of depositional environments based on the physical and chemical formation of sediment, the physics of sediment transport, and post-depositional diagenetic changes. Also includes the study and interpretation of stratified sedimentary rocks, including their identification, description, and modes of origin. Fundamental principles of lithostratigraphic and sequence stratigraphic analysis, mapping, and correlation are also presented**. Includes required field trip to the Guadalupe Mountains to learn stratigraphy field techniques.**

PROTHRO DISTINGUISHED PROFESSORSHIP OF
GEOLOGICAL SCIENCE

The Prothro Distinguished Professorship of Geological Science was established in 1986 to support the work and research of a professor in the **Geosciences program.**

**ROBERT L. BOLIN DISTINGUISHED PROFESSORSHIP OF
GEOLOGICAL SCIENCE**

The Robert L. Bolin distinguished professorship of geological science was established in 2013 to support the work and research of a petroleum geology professor in the geosciences program.

Mathematics

MATHEMATICS

Dawn Slavens, Chair (Bolin Hall 113A)
Professors: Donovan, Farris, Mitchell, Slavens, Tucker

Associate Professors: Bernard, Fosnaugh, Hood, Knox, McDonald, Schmitter
Assistant Professors: Belcher, ~~May, Richardson~~
Instructor: Jones
Professors Emeriti: Hinds, Huffman, **May,** Meux, Newton, Rowell, Spiller, Warndof

Bachelor of Science (see page 93)

Bachelor of Arts (see page 93)

Program Requirements

Major **(42 hours)**
Mathematics 1634, 1734, 2133, 2534, 3293, 3833, 4133, 4733, plus ~~9~~ **15** additional advanced hours[1] of mathematics **(MATH) or statistics (STAT)** courses (at least one course must be MATH 4143, 4293[2], or 4833), exclusive of Math 3033, 3113, 3123, and 4033.

[1]Within these 15 hours one must take either STAT 3573 or MATH 4293
[2]If a student elects to take both STAT 3573 and MATH 4293, then STAT 3573 must be taken before MATH 4293. Any exception must be approved by the chair of the department.

Additional Requirements **(7 hours)**
Consult advisor for approved minor and specific courses.
CMPS 1044, ~~1053,~~ **1063**
~~STAT 3573~~

All Mathematics majors must complete a minor of at least 18 semester hours of which at least six must be advanced. The minor field must be acceptable to the chairs of the majors and minor programs.

McCoy School of Engineering
Engineering Undergraduate Course Changes

Deletion of Undergraduate Courses, effective Spring 2014
MENT 1334. Fluid Power I
MENT 1342. Fluid Power II
MENT 2104. Electric Circuits
MENT 2123. Manufacturing Processes I
MENT 2134. Computer Aided Drafting
MENT 2143. Manufacturing Processes II
MENT 2204. Electronics
MENT 3001. 3002. 3003. Independent Study
MENT 3103. Statics
MENT 3134. Material Science
MENT 3333. Engineering Economics and Cost Analysis
MENT 3403. Automation I
MENT 3503. Automation II
MENT 3993. Coop Ment Educ Pract
MENT 4103. Strength of Materials
MENT 4113. Basic Instrumentation
MENT 4213. Thermodynamics
MENT 4063. Production Planning and Control
MENT 4742. Capstone Project

7. Graduate Course and Catalog Changes

Graduate Catalog Change, currently on page 19

INTERNATIONAL STUDENTS

Admission - International applicants to Midwestern State University must meet entrance requirements as outlined for all students and the items listed below to be considered for admission.

1. An application for admission by the following deadlines:
   Fall - ~~April 1~~ **May 15**
   Spring - ~~August 1~~ **September 15**
   Summer - ~~January 1~~ **March 15**

2. An evaluation fee of (U.S.) $50.00.

3. Official academic transcripts for all preparatory schools, colleges, and universities attended. These documents, along with official translation if in a language other than English, must be sent directly from the institution to the Office of International Services. (To be acceptable, the transcripts must reflect above average scholastic capabilities.)

4. Official Test of English as a Foreign Language (TOEFL) scores. Applicants must submit a score of at least ~~550 on the paper-based TOEFL exam or a score of at least 213 on the computer-based exam or~~ 79 on the Internet-based examination to meet the university requirement for unconditional admission. Students taking TOEFL iBT will be required to score a minimum total test score of 79, with preferred scores on each of the sections of the test as follows:
   Writing - 20
   Speaking - 20
   Reading - 19
   Listening – 20

   IELTS Test score of 6.0 will serve as an acceptable alternative to the above TOEFL requirement.
   ITEP Test score of 4.0 will serve as an acceptable alternative to the above TOEFL requirement.

   ~~TOEFL~~ **A language proficiency test** is not required if English is the native language. A local English proficiency examination may be required.

   Graduate applicants should refer to individual departmental or program sections for test score requirements on the ~~TOEFL~~ **language proficiency test**. ~~An applicant whose native language is not English~~ **Applicants from a foreign language base** must demonstrate a sufficient level of skill with the English language to ensure success in graduate studies.

No changes to numbers 5 and 6.

8. Dillard College of Business Administration

New Graduate Courses and Graduate Catalog Additions, effective Fall 2014

ACCT 5313. Energy Accounting and Law
Prerequisite: MGMT 5313
Description: Focuses on providing an overview of the accounting and legal issues common in the energy industry for those who are not accountants. Accounting topics include accounting for

working and royalty interests, depletion, intangible drilling costs, and the financial implications of taxation issues. Taxation issues include state ad-valorem and severance taxes as well as federal taxation issues, such as tax credits. Legal topics include negligence, legal process, and contract law, including oil and gas common joint operating agreements and participation agreements.
Lecture and Lab 3(3-0)
Course Objectives and/or additional information:

- **Students will develop a working knowledge of energy industry: accounting, taxation, and legal concepts and issues.**
- **Students will apply this specialized accounting, taxation, and legal knowledge to the energy industry.**

FINC 5313. Energy Industry Finance
Prerequisite: MGMT 5313 and FINC 5713.
Description: Focuses on the financing and economics of oil and gas endeavors, including risk management, commodity and derivative markets, sources of financing, budgeting, capital budgeting and cash flow analysis, quantitative analysis pertinent to the oil and gas industry, methods for determining the value of production, and typical forms of doing business.
Lecture and Lab 3(3-0)
Course Objectives and/or additional information:

- **Students will develop a working knowledge of energy industry: economic and financing concepts and issues.**
- **Students will apply this specialized economic and financing knowledge to the energy industry.**

MGMT 5313. Energy Management
Prerequisite: BUAD 5006 or equivalent and consent of the Graduate Coordinator.
Description: Focuses on terminology, concepts, and business issues that are particularly important to the energy industry. Topics include drilling and production terminology and concepts, an introduction to the importance of geology and geographic information systems to the oil and gas industry, negotiations, and land management. An emphasis is placed on the importance of the ownership of mineral interests and the process for determining such ownership. The process for obtaining mineral lease rights is examined.
Lecture and Lab 3(3-0)
Course Objectives and/or additional information:

- **Students will develop a working knowledge of energy industry terminology, concepts and issues.**
- **Students will develop an understanding of the management concepts, issues, and practices applicable to the energy industry.**
- **Students will apply this specialized management knowledge to the energy industry.**

Graduate Catalog Changes, currently on page 58

Graduate Faculty: Bultena**,** Dubinsky, Fritzsch, Fukasawa, Gaharan, Gelves, Harmel, Johnston, **Kataria,** Lei, Li, Martin, Martinez, Owen, Patin, Patterson, Patton, ~~Raulston,~~ Shao, Stambaugh, Thomas, Tilker, Wilson, G. Zhang

New Concentration

This proposal adds a MBA concentration in Energy Management along with three new graduate classes related to this concentration.

Currently on page 61—adding the concentration in Energy Management:

*Note: Students completing a thesis will take BUAD 6983, 6993, and one graduate elective course for a total of 9 hours. **The Dillard College offers concentrations in Accounting or Energy Management.** Students completing a **c**oncentration ~~in Accounting~~ will take three graduate ~~accounting~~ electives **in that concentration**

area as approved by the Graduate Coordinator for a total of 9 hours; transcript will reflect the concentration ~~in accounting~~.

9. West College of Education

Educational Leadership

Graduate Catalog Changes, currently on page 104

A probationary principalship certificate is available upon ~~completion of the 15 hours of core courses~~ **admission to the educational leadership program** and a documented job offer. Candidates for this certificate must meet legal requirements. The certificate is valid one year at a time for up to 3 years. Students must enroll in EDLE 5793 to participate in a probationary internship the first ~~year~~ **semester** and EDLE 5791 for each additional ~~year~~ **semester.**

10. Prothro-Yeager College of Humanities and Social Sciences

Political Science

Graduate Course and Graduate Catalog Changes:

Deletion of Courses, effective Spring 2013

POLS 5133. Public Administration
POLS 5163. Federalism and Intergovernmental Relations
POLS 5443. Municipal Government and Metropolitan Problems

Change of Course Title and Description, effective Fall 2014

POLS 5043. ~~Legislation~~ **Congress**

Description: ~~A study of the role of Congress in the American System.~~ **This class explores the process by which the U.S. Congress has been institutionalized throughout American history to create a political entity whose main role is to protect the interests of its members. Students will be taught not only how the U.S. Congress works, but the theories and concepts that underscore how Congress has become the institution we see today.**

Lecture and Lab 3(3-0)

Course Objectives and/or additional information:

- **Acquire a Broad Knowledge Base of American Politics, Comparative Politics, International Relations and Political Theory**
- **Objective 1.2: Analyze political issues in a professional manner consistent with disciplinary norms.**
- **Develop Critical Thinking Skills**
- **Objective 2.1: Display critical thinking skills concerning theoretical explanations of local, state, national, and global political processes.**
- **Objective 2.2: Demonstrate critical thinking skills towards political research concerning the strengths and weaknesses of various methods of inquiry.**
- **Objective 2.3: Evaluate the appropriateness of rival political explanations to current political issues.**
- **Communicate in a Professional Manner**
- **Objective 4.1: Demonstrate effective writing skills.**
- **Objective 4.2: Display effective oral communications skills.**
- **Objective 4.3: Demonstrate an ability to produce professional presentations.**

POLS 5233. ~~American Constitutional Law I~~ **American Constitutional Law**

Description: ~~The development of the Constitution through the interpretations of the Supreme Court.~~ **An examination of the scope of the powers of the major institutions of the federal government, as well as the interplay between the federal and state governments in US Supreme Court cases. The course utilizes Political Science theories and literature to explore the political system and social forces that influence constitutional development in the United States.**

Lecture and Lab 3(3-0)

Course Objectives and/or additional information:

- **Acquire a Broad Knowledge Base of American Politics, Comparative Politics, International Relations and Political Theory**
- **Objective 1.2: Analyze political issues in a professional manner consistent with disciplinary norms.**
- **Develop Critical Thinking Skills**
- **Objective 2.1: Display critical thinking skills concerning theoretical explanations of local, state, national, and global political processes.**
- **Objective 2.2: Demonstrate critical thinking skills towards political research concerning the strengths and weaknesses of various methods of inquiry.**
- **Objective 2.3: Evaluate the appropriateness of rival political explanations to current political issues.**
- **Communicate in a Professional Manner**
- **Objective 4.1: Demonstrate effective writing skills.**
- **Objective 4.2: Display effective oral communications skills.**
- **Objective 4.3: Demonstrate an ability to produce professional presentations.**

POLS 5243. ~~American Constitutional Law II~~ **Civil Rights and Civil Liberties**
Description: ~~A continuation of Political Science 5233. Additional cases in constitutional development. A study of civil rights and civil liberties.~~ **The course explores the socio-political forces influencing constitutional development in the United States of civil rights and civil liberties through the political science literature and theories regarding Supreme Court decisions and their impact on society.**
Lecture and Lab 3(3-0)
Course Objectives and/or additional information:

- **Acquire a Broad Knowledge Base of American Politics, Comparative Politics, International Relations and Political Theory**
- **Objective 1.2: Analyze political issues in a professional manner consistent with disciplinary norms.**
- **Develop Critical Thinking Skills**
- **Objective 2.1: Display critical thinking skills concerning theoretical explanations of local, state, national, and global political processes.**
- **Objective 2.2: Demonstrate critical thinking skills towards political research concerning the strengths and weaknesses of various methods of inquiry.**
- **Objective 2.3: Evaluate the appropriateness of rival political explanations to current political issues.**
- **Communicate in a Professional Manner**
- **Objective 4.1: Demonstrate effective writing skills.**
- **Objective 4.2: Display effective oral communications skills.**
- **Objective 4.3: Demonstrate an ability to produce professional presentations.**

11. Robert D. and Carol Gunn College Health Sciences and Human Services

Athletic Training and Exercise Physiology

Graduate Catalog Change, currently on page 111

ROBERT D. AND CAROL GUNN COLLEGE
OF HEALTH SCIENCES AND HUMAN SERVICES
James Johnston, ~~Interim~~ Dean (Bridwell Hall 104)

ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY
Benito Velasquez
Chair, Athletic Training and Exercise Physiology Department

Frank B. Wyatt
Graduate Coordinator

Graduate Faculty: Velasquez, ~~Winchester,~~ Wyatt
Emeriti Faculty: Dudley, Gillespie, Henderson, Stockton

Radiologic Sciences

Graduate Course and Catalog Changes:

Change of Course Number/Title/Description/Lecture-Lab hours, effective Fall 2014

RADS ~~5235 Administrative Radiology Practicum~~

5233. Administrative Radiology Evidenced-Based Project

Prerequisites: RADS 5003, 5013, 5023, 5033, 5103, 5124

Description: ~~Building on all knowledge and skills obtained throughout the program, students will both observe and apply concepts of management and administration in the clinical setting.~~ **Students will use Radiologic Sciences administration and management best practices to propose, conduct, and evaluate a faculty-approved evidence-based project.**

Lecture and Lab ~~5(1-4)~~ **3(3-0)**

RADS ~~5245 Radiologic Education Practicum~~

5243. Radiologic Education Evidenced-Based Project

Prerequisites: RADS 5003, 5013, 5023, 5033, 5204, 5223

Description: ~~This course lets students apply the knowledge and skills obtained throughout the program to the planning, administration, and evaluation of a radiologic curriculum in an educational institution. Observation and active participation may include both the classroom and clinical setting.~~ **In this course, students will identify and complete an evidence-based project within the area of radiologic education. The design of the course affords students the opportunity to apply knowledge and skills obtained throughout the program to the planning, administration, and evaluation of a faculty approved project.**

Lecture and Lab ~~5(1-4)~~ **3(3-0)**

Graduate Catalog changes, currently on page 149

Graduate students may earn a grade of C on one or two graduate courses and be allowed to remain in the MSRS program as long as their cumulative grade point average remains 3.0 or higher. If a graduate student earns a grade of C on more than two graduate courses, the student will be dismissed from the MSRS program. Any grade below a C will also result in dismissal from the MSRS program.

RADIOLOGIC SCIENCES CORE		SCH
RADS 5003	Research Methods	3
RADS 5013	Contemporary Trends in Radiologic Science	3
RADS 5023	Legal and Regulatory Considerations	3
RADS 5033	Leadership for Change in Radiologic Science	3
		12 hours

1. RADIOLOGIC ADMINISTRATION MAJOR - THESIS

Radiologic Sciences Core		12
RADS 5103	Management Techniques for Radiologic Administrators	3
RADS 5124	Financial Management in Radiologic Administration	4
~~RADS 5235~~	~~Administrative Radiology Practicum~~	~~5~~
RADS 5233	**Administrative Radiology Evidence Based Project**	**3**
RADS 6983	Thesis I	3
RADS 6993	Thesis II	3
General Electives: Cognate Area		6
		~~36 hours~~ **34 hours**

2. RADIOLOGIC ADMINISTRATION MAJOR - NON-THESIS

Radiologic Sciences Core		12
RADS 5103	Management Techniques for Radiologic Administrators	3
RADS 5124	Financial Management in Radiologic Administration	4
~~RADS 5235~~	~~Administrative Radiology Practicum~~	~~5~~

RADS 5233	**Administrative Radiologic Evidence Based Project**	**3**
RADS 6773	Research Methods II	3
RADS Electives		6
General Electives: Cognate Area		6
		~~39 hours~~ **37 hours**

3. RADIOLOGIC EDUCATION MAJOR - THESIS

Radiologic Sciences Core		12
RADS 5204	Curriculum Development in Radiologic Education	4
RADS 5223	Administration of Radiologic Education Programs	3
~~RADS 5245~~	~~Radiologic Education Practicum~~	~~5~~
RADS 5243	**Radiologic Education Evidence Based Project**	**3**
RADS 6983	Thesis I	3
RADS 6993	Thesis II	3
General Electives: Cognate Area		6
		~~36 hours~~ **34 hours**

4. RADIOLOGIC EDUCATION MAJOR - NON-THESIS

Radiologic Sciences Core		12
RADS 5204	Curriculum Development in Radiologic Education	4
RADS 5223	Administration of Radiologic Education Programs	3
~~RADS 5245~~	~~Radiologic Education Practicum~~	~~5~~
RADS 5243	**Radiologic Education Evidence Based Project**	**3**
RADS 6773	Research Methods II	3
RADS Electives		6
General Electives: Cognate Area		6
		~~39 hours~~ **37 hours**

No changes in number 5 and 6…

Graduate Degree Plan Changes, effective Fall 2014

MASTER OF SCIENCE IN RADIOLOGIC SCIENCE DEGREE PLAN WITH MAJORS IN RADIOLOGIC ADMINISTRATION AND RADIOLOGIC EDUCATION

Major Courses	Semester Hours
RADS 5003 Research Methods	3
RADS 5013 Contemporary Trends in Radiologic Science	3
RADS 5023 Legal and Regulatory Considerations	3
RADS 5033 Leadership for Change in Radiologic Science	3
RADS 6883 Research Methods II (Non-Thesis option)	3
RADS 6983 Thesis I (Thesis option)	3
RADS 6993 Thesis II	3
Radiologic Administration Majors	
RADS 5103 Management Techniques for Radiologic Adm.	3
RADS 5124 Financial Management in Radiologic Adm.	4
RADS **5233** Administrative Radiology Evidence Based Project	**3**
Radiologic Education Majors	
RADS 5204 Curriculum Development in Radiologic Ed.	4
RADS 5223 Adm. of Radiologic Education Programs	3

Major Courses	Semester Hours
RADS **5243** Radiologic Education Evidence Based Project	**3**
Electives	
Elective I RADS 6443 Survey Design	3
Elective II RADS 6553 Statistics	3
Elective III (Non-Thesis option)	3
Elective IV (Non-Thesis option)	3
Totals Non-Thesis Option	**37**
Thesis Option	**34**

12. Graduate Catalog Change

currently on page 25

TIME LIMIT FOR COMPLETION OF A GRADUATE PROGRAM

All requirements for a master's degree must be completed within a period of six years from the time of first enrollment in a graduate course **unless a shorter time frame is specified by the academic program**. For example, students enrolling for their first graduate course in Fall 2012 must complete the degree by August 2018. Students enrolling for their first graduate course in Spring 2013 must complete the degree by December 2018. A proportionately longer period of time is granted for programs requiring more than 36 graduate hours. Courses completed more than six years prior to graduation date ~~may~~ **must** be repeated or replaced unless the student evidences competency as determined by the graduate coordinator. Students affected by this policy should contact the coordinator of their respective program to initiate an extension to the time limit.

Respectfully submitted,

Deb Schulte, Assistant to the Provost