

University of Miami Bulletin, 2009 – 2010
Undergraduate Course Listing

* 500 level courses appear in both the undergraduate and graduate course listing and may be considered undergraduate or graduate at the discretion of the department. Prerequisites, co-requisites and other course requirements are subject to change.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS201 Psychosocial Change and Well-being

3 credits

Fall & Spring Semester

Explores the integration of individual, organizational, and community approaches to the promotion of health and well-being. Emphasis will be placed on real-life applications in multiple settings such as schools, workplaces, government, and non-government institutions.

EPS270 Lifespan Human Development

3 credits

Fall & Spring Semester

Processes and theories of human development from birth to old age are explored. Areas to be covered include: physical development, cognitive development, social and personality development, moral development, and language development. Emphasis is placed on development as a life-long process and its importance in understanding human behavior.

EPS280 Introduction to Family Studies: Dating, Coupling, Parenting

3 credits

Fall & Spring Semester

Theory and practice of romantic relationships and parent-child relationships, including discussion and skills building. Research based information on how to maximize the quality of these interpersonal relationships will be examined.

EPS291 Character and Community Development

3 credits

Spring Semester

The course covers moral and psychological dimensions pertaining to character development as it occurs in communities. Topics include contemporary theory and research regarding perspectives on virtue and morality, states of character, ethical decision making, and character development. The reciprocal relationships between character and community will be a central theme in exploring ethical issues that arise in working with individuals, institutions, and communities. Theory and research will be linked to relevant applications.

EPS301 Personal Growth and Wellness

3 credits

Offered By Announcement Only

Increasing one's personal wellness and growth opportunities through hands-on learning as based on the research literature of positive psychology, self-actualization, and wellness.

EPS305 Career Development and Planning

3 credits

Offered By Announcement Only

Exploration and planning of careers based on three knowledge domains: cognitive and social foundations, the occupational world and work behavior, career choice, development in individuals and organizations.

EPS310 Interdisciplinary Introduction to Sport in America: Psychosocial Theories and P

3 credits

Offered By Announcement Only

Uses an ecological model to integrate societal, cultural, group dynamics, media, interpersonal, and intrapersonal aspects of sport. Students will learn how to understand and analyze one topic (sport) through various theoretical lenses, in this case, physiological, psychosocial, sociological, and communication. Topics range from exercise physiology to legal and ethical issues.

PREREQUISITE: SOPHOMORE STANDING OR HIGHER.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS311 Group Processes and Development

3 credits

Spring Semester

Research findings concerning the nature of small groups and patterns of behavior associated with them are explored. Students experience an ongoing group process to which theories and concepts can be applied. Emphasis is placed on learning to be a participant observer of group behavior and processes, learning about one's own behavior in groups, and developing skills to be a more effective member and leader in task groups.

EPS321 Understanding Human Service Organizations

3 credits

Fall Semester

Focus on unique role of community-based human service organizations in society with an overview and history of community organizations, which provide services, support, advocacy, and organizing in today's communities. review of the systems, cultures, structures, and processes of community organizations with a special emphasis on promoting well-being in communities.

PREREQUISITE: EPS 201 OR PERMISSION BY INSTRUCTOR.

EPS340 Psychology and Sociology of Sexual Identity

3 credits

Fall & Spring Semester

History, psychology, and sociology of gay, lesbian, and transgendered populations.

PREREQUISITE: PSY 110 OR SOC 101.

EPS351 Introduction to Statistics and Research Design

3 credits

Fall Semester

The course will cover basic statistics relevant to the social sciences (e.g., central tendency, variation, t-tests, correlations), with emphasis on real world applications employing commonly used research designs. Students will acquire the tools necessary to interpret elementary statistical analyses and a foundation in the basic analytic methods used in conducting quantitative research in the behavioral sciences.

PREREQUISITE: EPS 201, MTH 101.

EPS360 Educational Psychology

3 credits

Fall & Spring Semester & First & Second Summer Session

A review of basic educational psychology principles including cognitive and language development, personal, social and moral development, learning theories, and motivation. A review of basic concepts that contribute to effective learning and other aspects of education.

PREREQUISITE: SOPHOMORE STANDING OR PSY 110.

EPS361 Community Psychology & Development

3 credits

Fall Semester

Community psychology is about the prevention of psychosocial problems and the promotion of mental health and well being through the creation of equitable and just social settings, neighborhoods, communities, and societies. Course topics include: stress & social support; oppression and human diversity; primary prevention, social intervention and health promotion; self-help; mediating structures; community mental health; alternative settings; community development and social change.

PREREQUISITE: EPS 201 OR PERMISSION OF THE INSTRUCTOR.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS362 Introduction to Multiple Intelligence

3 credits

First & Second Summer Session

Students will be provided with an awareness of both the Multiple Intelligence Model and Brain Based Learning, through lectures, discussions, and exercises. The student will identify their learning styles in order to discuss strengths and deficits.

Activities will be provided to enhance teaching and learning experiences. Creative writing exercises will be provided.

EPS381 Romantic Relationships: Theory, Research, and Practice

3 credits

Offered By Announcement Only

An introduction to the psychological science of romantic relationships, covering current theories that explain how relationships flourish. The course also covers the practical aspects of romantic relationships. Local and national resources for fostering strong relationships provide a third focus of the course.

PREREQUISITE: SIX CREDITS OF SOCIAL SCIENCE.

EPS420 Introduction to Counseling and Psychotherapy

3 credits

Fall Semester

This course is a survey of the theories and practical applications of counseling and psychotherapy. Students will acquire an understanding of a variety of theories of psychotherapy, the basic requirements and skills for effective, ethical counseling, and an appreciation for the role of values and human differences in counseling and psychotherapy. This course does not prepare students for practice in mental health professions.

PREREQUISITE: PSY 110 OR EPS 201

EPS428 Field Experience in Community Services

3 credits

Fall & Spring Semester

This course is intended to be the capstone of the EPS minor in Family and Human Services. The student will spend a minimum of 3 hours per week in a supervised field placement in a community setting and will meet weekly in on-campus supervision.

PREREQUISITE: JUNIOR STANDING, EPS 270 OR PSY 203 AND EPS 280. EPS 420 IS A PREREQUISITE OR CO-REQUISITE.

EPS493 Workshop in Education: Small Group Behavior

3 credits

Fall Semester

Research findings concerning the nature of small groups and the patterns of behavior associated with them are explored. Students experience an ongoing group process to which the theories and concepts can be applied. Emphasis is placed on learning to be participant observer of group behavior and processes, learning about one's own behavior in groups, and developing skills to be a more effective member and leader in task group.

PREREQUISITE: PSY 110 (OR SOME OTHER INTRODUCTORY PSYCHOLOGY COURSE)

EPS499 INDIVIDUAL STUDY

1- 3 credits

Fall & Spring Semester & First & Second Summer Session

Individual work on a special project under faculty guidance.

PREREQUISITE: PERMISSION OF DIRECTING FACULTY MEMBER AND DEPARTMENT CHAIRMAN.

EPS505 Lifespan Human Development

3 credits

Fall Semester

Theories and research relating to the biophysical, cognitive, and psychosocial domains of human lifespan development.

PREREQUISITE: GRADUATE STANDING OR PERMISSION OF INSTRUCTOR

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS506 Foundations of Mental Health Counseling

3 credits

Offered By Announcement Only

Students will learn basic concepts and skills for mental health counselors in a multicultural world.

PREREQUISITE: ADVANCED UNDERGRADUATE OR GRADUATE STANDING.

EPS509 Field Studies in Education

1- 6 credits

Fall & Spring Semester

Individual study of a school or school system, identifying its strengths and weaknesses, and making positive recommendations.

PREREQUISITE: APPROVAL OF ADVISOR.

EPS510 Professional, Legal and Ethical Issues in Counseling

3 credits

First Summer Session

Professional, legal, ethical, and licensing issues in the counseling profession.

PREREQUISITE: GRADUATE STANDING IN THE COUNSELING PROGRAM

EPS511 Lifestyle and Career Counseling

3 credits

Spring Semester

An introductory course in career development and career counseling, focusing on theories of career development, counseling tools, strategies, and sociological, economic, and psychological influences on the American worker.

PREREQUISITE: EPS 513 OR PERMISSION OF INSTRUCTOR.

EPS512 Assessment Strategies for Counselors I

3 credits

Spring Semester

This course places emphasis on diagnosis, appraisal, assessment, and testing for individual and interpersonal disorders. It addresses statistical procedures and psychometric principles necessary for responsible test use and exposes the student to a variety of test and non-test assessment techniques in marriage and family, and mental health counseling.

PREREQUISITE: GRADUATE STANDING IN COUNSELING PROGRAM.

EPS513 Counseling Process and Practice

3 credits

Fall Semester

The development of basic communication and clinical skills necessary for establishing the counseling relationship and conducting therapy.

PREREQUISITE: GRADUATE STANDING IN COUNSELING PROGRAM.

EPS514 Psychosocial Bases of Social and Cultural Diversity

3 credits

Fall Semester

Interrelationship between psychology and sociology in understanding development of diversity in human social systems. Implications for counseling and therapy.

PREREQUISITE: EPS 505 OR EQUIVALENT OR PERMISSION OF INSTRUCTOR.

EPS515 Dynamics of Marriage and Family Systems

3 credits

Fall Semester

Introduction to the history and development of marriage and family systems theory as a method for understanding individuals' behavior and functioning. Introduction to several modes of family therapy. Throughout the course, lectures will also be integrated with other topics including race, culture, gender, sexual orientation, ability.

PREREQUISITE: GRADUATE STANDING IN COUNSELING PROGRAM OR PERMISSION OF INSTRUCTOR

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS526 Counseling in Community Settings

3 credits

Fall Semester

Exploration of a variety of perspectives on community services relevant to mental health counselors. Topics include: the variety of community settings; community, national, and international diversity in mental health services; diversity of clients (e.g., cultures, religions, GLBT, elderly, social classes, disabilities); mental health funding; the role of politics, policy, advocacy, and research; interviewing across cultures.

PREREQUISITE: GRADUATE STANDING OR PERMISSION OF INSTRUCTOR

EPS531 Organization Development

3 credits

Offered By Announcement Only

Techniques, strategies, and models of Organizational Development as they relate to various kinds of institutions. Simulations and actual interventions are stressed.

EPS533 Organization and Administration of Higher Education I

3 credits

Fall Semester

Theoretical approaches from organizational analysis. Applications to problems, processes, and patterns of higher education institutions. Consideration given to legal status, governance patterns, and external relations. Administrator, faculty, trustee, and student roles are also explored.

EPS534 Theories of Supervision

3 credits

Offered By Announcement Only

Examination of the elements of human behavior involved in successful supervision of instruction. Survey of current supervisory practices in the schools. Consideration of leadership theory.

EPS539 Effective Teaching and Learning in the Community College

3 credits

Offered By Announcement Only

Preparation for community college teachers in classroom issues using a theoretical base. Items covered will include teaching performance, teaching and learning styles, motivating learners, educational factors relating to cultural and ethnic variables, and discovery of instructional resources.

EPS543 The Community College

3 credits

Offered By Announcement Only

An overview of American community colleges including historical evolution, purposes and functions, characteristics of students and faculty, organization and administration, curricula, current issues, and trends.

EPS544 Assessing Learning in the Community College

3 credits

Offered By Announcement Only

Assessment and analysis of learning processes and outcomes in higher education. Formative and summative assessment, data analysis and interpretation are included. Class activities include: lectures, group projects, collaborative learning experiences, reports, participation in assessment strategies, role playing, and demonstration of assessment techniques.

EPS545 Administration of Student Affairs

3 credits

First Summer Session

History and philosophy of student affairs will be addressed as well as principles and organization of student affairs administration, current problems, procedures, and recent developments.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS550 Educational Measurement and Evaluation

3 credits

Offered By Announcement Only

Basic principles of measurement as they apply to the construction of teacher-made tests and the selection and use of standardized tests. Attention is also given to the use of measurement instruments in connection with both formative and summative evaluation. Behavioral objectives are considered in the context of criterion-referenced and mastery tests.

PREREQUISITE: TAL 260 OR PERMISSION OF INSTRUCTOR.

EPS553 Introductory Statistics

3 credits

Fall Semester & Second Summer Session

Basic Statistical procedures will be discussed including measures of central tendency, variability and relationship, sampling, and basic tests of statistical significance.

EPS554 Essentials of Research in Social and Behavioral Sciences

3 credits

Fall Semester

Study of the standards methods and techniques of research in the behavioral and social sciences. Brief orientation to quantitative and qualitative procedures used in the analysis and interpretation of research data are emphasized.

EPS565 Family Therapy with Ethnic Minority Families

3 credits

Offered By Announcement Only

A course in special issues and strategies in family therapy with minority populations focusing on African American and Hispanic clients.

PREREQUISITE: EPS 280 OR 515 OR 612 OR PERMISSION OF INSTRUCTOR.

EPS568 Computer Applications in Educational and Behavioral Science Research

3 credits

Offered By Announcement Only

An introduction to the use of microcomputer statistical packages in social science research, with emphasis given to SPSS for Windows. Course content will cover a broad range of activities encountered in the data analytic process including planning and creating a database, data coding, file manipulation tasks, data screening, and statistical analysis.

PREREQUISITE: EPS 553 OR EQUIVALENT WITH PERMISSION OF INSTRUCTOR.

EPS570 Basic skills in Counseling and Interviewing

3 credits

Spring Semester

Introductory course on essential skills used in counseling and interviewing. Through lectures, discussions, and small group exercises, students will explore their natural style of helping and learn effective listening and communication skills. This course is not intended to train students to become a professional counselor.

PREREQUISITE: ADMISSION IN THE HIGHER EDUCATION PROGRAM OR PERMISSION OF INSTRUCTOR

EPS590 Workshop in Education

1- 3 credits

Offered By Announcement Only

Study in special interest areas in education.

EPS591 Workshop in Education

1- 3 credits

Offered By Announcement Only

Study in special interest areas in education.

EPS592 Workshop in Education

1- 3 credits

Offered By Announcement Only

Study in special interest areas in education.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EDUCATIONAL & PSYCHOLOGICAL STUDIES

EPS593 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS594 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS595 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS596 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS597 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS598 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EPS599 Workshop in Education

1- 3 credits

Study in special interest areas in education.

Offered By Announcement Only

EXERCISE & SPORT SCIENCES

ESS100 Leadership, Management, and Ethics in Sports

3 credits

Fall Semester

Students will gain an understanding of skills and philosophies of leadership, management, and ethic necessary for a position in the sport industry.

PREREQUISITE: SUMMER SCHOLAR STUDENTS ONLY.

ESS105 Introduction to Athletic Training and Sports Medicine

3 credits

Second Summer Session

In this practical, hands-on course, the students will learn to identify basic sport injuries that afflict the major joints of the body, and review basic methods to treat these injuries. The student will also learn how nutrition, improper biomechanics, and poor training can all impact sport performance. Plus, participants will be given the opportunity to learn and practice techniques or procedures (such as athletic taping or bracing) that may be useful in minimizing the incidence of injury.

ESS110 Explorations in Sports Medicine

3 credits

First Summer Session

This class will consist of an introduction to the field of Sports Medicine and Exercise Science. Basic information relevant to appropriate exercise prescription, proper nutritional habits, implications on health, longevity and performance will be addressed. Hands-on practical experiences will supplement theoretical concepts learned in the classroom setting.

ESS120 Tennis

2 credits

Fall & Spring Semester

Theory, knowledge, skills, and practice in tennis. There is a \$25.00 fee for balls, racquets and equipment associated with this class. For credit only.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS123 Swimming and Lifeguard Training

2 credits

Fall & Spring Semester

Theory and practice in teaching techniques in swimming and professional lifeguarding, including First Aid and CPR. Upon successful completion, students will be eligible for an American Red Cross Lifeguarding Certificate. There is a \$60.00 fee associated with this class for American Red Cross Certification, books, and equipment. Credit only.

PREREQUISITE: PASS SWIMMING PRE-TEST. CREDIT ONLY.

ESS124 Scuba

3 credits

Fall & Spring Semester

Basic scuba and open water "I" certification. Includes theory, practical instruction, open water dives, and NAUI certification. For credit only. There is a \$65.00 scuba rental fee associated with this class.

PREREQUISITE: ESS 123 OR EQUIVALENT.

ESS140 Introduction to Athletic Training

2 credits

Fall Semester

Introduction to clinical athletic training for first year athletic training majors. Emphasis will be on the clinical education components. University of Miami athletic training staff, policies and procedures as used in the clinic/athletic training room, entry level taping skills, and interaction with various community and university agencies. Students must be additionally enrolled in ESS 141.

PREREQUISITE: STUDENTS MUST HAVE A SOPHOMORE STATUS.

ESS141 Introduction to Athletic Training Lab

1 credit

Fall Semester

Introduction to clinical athletic training for the first year athletic training major. Hands on experience for the entry level athletic training student. Students will be required to complete a competencies check list with a passing grade. Clinical hours in the athletic training room will give the student the opportunity to use the knowledge, skills, and techniques learned in this course. The student must complete 70 clinical hours which are required for the application process to the Athletic Training Education Program. Student must be additionally enrolled in ESS 140. Fee \$65.00 required for Lab.

ESS145 Responding to Emergencies

2 credits

Fall Semester

Students will become familiar with accident, injury, and illness situations, techniques for immediate first aid, and legal parameters involved when administering emergency care. Certification in adult CPR will be obtained. A \$40 lab fee will be required for this class.

ESS150 General Nutrition for Health and Performance

3 credits

Fall & Spring Semester

Fundamentals and theories of nutrition with a specific focus on nutrition for both sports and fitness.

PREREQUISITE: FOR NON-SCIENCE MAJORS ONLY.

ESS155 Biological and Health Related Bases of Exercise

3 credits

Fall Semester

This course prepares students to perform exercise prescription for aerobic and resistance training programs according to sound physiological principles. Students will learn how to quantify work and power output during exercise and its implications for improving one's health, longevity, and activities of daily living.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS156 Laboratory Applications to Exercise Physiology

1 credit

Fall Semester

This laboratory will incorporate clinical testing for fitness evaluations, strength assessment, and risk assessment. Students will have the opportunity to perform hands-on testing and assessment using sophisticated laboratory equipment with guidance for analysis and interpretation of results.

PREREQUISITE: ESS 155.

ESS184 Athletic and Sports Injuries

3 credits

Fall Semester

Athletic injuries in sports that occur over the principal joints in the body and the inclusion of anatomical structures that are frequently damaged. Operational treatments and rehabilitation programs after surgery.

ESS200 Survey of Sports Administration

3 credits

Fall Semester

Students will examine the employment opportunities and skills needed in professional, collegiate, and amateur sports as well as the health and fitness industry.

PREREQUISITE: SUMMER SCHOLAR STUDENTS ONLY.

ESS201 Introduction to Sport Administration

3 credits

Fall Semester

Basic overview of sports management.

ESS202 Applied Nutrition for Health and Performance

3 credits

Fall & Spring Semester

The study of nutrition, diet analysis, biochemical processes in energy metabolism, nutrition and health problems, and nutrition as it relates to physical performance. The class will have 3 sections: 1) nutritional links to chronic disease; 2) nutrition before, during and after exercise bout; and 3) nutritional supplements for health and performance.

PREREQUISITE: FOR SCIENCE MAJORS ONLY

ESS204 Sports Personnel/Career Management

3 credits

Fall Semester

This course will expose students to the employment opportunities in the sport industry through the following modalities: lecture, videos, speakers and visitation. Students will also learn the techniques of resume writing and the job interview.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS206 Sport Facilities and Event Management

3 credits

Fall Semester

This course is an overview of the policy and procedures necessary to organize and develop sport events and facilities. In depth review of all programs, functions and procedures necessary for the operation of events and facilities are examined.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS210 Foundations in Athletic Training

2 credits

Spring Semester

Introduction to Sports Medicine/Athletic Training with emphasis on study of the sports medicine team, legal concerns, nutrition, and pre-participation physicals. Course will discuss the basic principles of injury prevention including the role of conditioning, equipment, and protective padding. Additionally, students will be introduced to the study of etiology and mechanisms of injury, pathology, and recognition of clinical signs and symptoms of athletic injury. The student must complete 50 clinical observation hours, which are required for the retention process of the Athletic Training Education Program. Prerequisite: Must have sophomore status.

PREREQUISITE: MUST HAVE SOPHOMORE STATUS.

ESS212 Elements of Sports Psychology

3 credits

Fall & Spring Semester

Introduction to the field of sport and exercise psychology by examination of psychological theories and research related to sport and exercise behavior.

PREREQUISITE: ESS 201 OR PERMISSION

ESS221 Bioenergetics and Skeletal Muscle Physiology

3 credits

Fall Semester

This course discusses the structure and function of human skeletal muscle as a biological machine, biological energy systems as they function during exercise, fatigue and recovery, the contractile process in skeletal muscle, and the specific changes resulting from variations in the training stimulus.

ESS222 Exercise Physiology Laboratory: Neuromuscular

2 credits

Fall Semester

This course examines the nature of data collection in exercise physiology. Students will receive information on collection theory and its application to the measurement of a number of physiological systems during exercise. The course is designed to establish a clear linkage between the chronic and acute changes that occur during exercise and the laboratory methods that are used to assess those changes. Corequisite: ESS 221.

PREREQUISITE: COREQUISITE: ESS 221.

ESS230 Medical Terminology and Documentation

1 credit

Fall & Spring Semester

Terminology, note writing, and documentation techniques in sports medicine. A treatment cycle model will be introduced.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

ESS232 Basic Human Physiology

3 credits

Spring Semester

This course presents a general overview of the major systems of the human organism with an examination of how they function in the human body.

ESS235 Personal and Community Health

2 credits

Fall Semester

Overview of current strategies and practices for healthy living, including health maintenance and disease prevention.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS245 Kinesiology

3 credits

Fall & Spring Semester

Study of the structure and function of the skeletal, joint, and muscular systems. Emphasis is placed on the mechanics of the movement of the human body and its relationship to sport and physical performance.

PREREQUISITE: BIL 109 OR HSC 210.

ESS246 Gross Anatomy

3 credits

Spring Semester

The essentials of Myology, Osteology, and Arthrology. Major nerves and arteries are also dissected. Many of the dissection areas are injury sites in sports, such as the knee, shoulder, elbow, neck, and spinal nerves. There is a laboratory fee requirement for this course (\$100.00).

ESS250 Orthopedic Assessment: Lower Extremity

3 credits

Fall Semester

Common types of orthopedic/sports dysfunctions to lower extremity will be discussed. Injuries will be discussed from the following viewpoints: etiology and mechanism of injury, pathology, recognition and valuation techniques, protocols, and prevention. Corequisite: ESS 251.

PREREQUISITE: ESS 246. OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER IN BOTH COURSES. COREQUISITE: ESS 251.

ESS251 Orthopedic Assessment: Lower Extremity Lab

1 credit

Fall Semester

Techniques used to evaluate orthopedic and sports injuries occurring to the lower extremity. The student must complete 100 clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize lower extremity orthopedic assessment, goniometry, manual muscle testing techniques, and gait evaluations. Student must be additionally enrolled in ESS 250.

PREREQUISITE: STUDENT MUST BE ADDITIONALLY ENROLLED IN ESS 250.

ESS260 Orthopedic Assessment: Upper Extremity

3 credits

Offered By Announcement Only

Common types of orthopedic/sports dysfunctions to the upper extremity will be discussed. Injuries will be discussed from the following viewpoints: etiology and mechanism of injury, pathology, recognition and evaluation techniques, protocols, and prevention. Corequisite: ESS 261.

PREREQUISITE: ESS 246. OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH. COREQUISITE: ESS 261.

ESS261 Orthopedic Assessment: Upper Extremity Lab

1 credit

Spring Semester

Techniques used to evaluate orthopedic and sports injuries occurring to the upper extremity. The student must complete 100 clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize upper extremity orthopedic assessment, goniometry, and manual muscle testing techniques. Students must be additionally enrolled in ESS 260.

PREREQUISITE: NONE. CO-REQUISITE: ESS 260

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS264 General Medical Conditions Evaluation

1 credit

Fall Semester

This class is the study of the clinical signs and symptoms of General Medical conditions that will present to the Certified Athletic Trainer. Emphasis will be placed on the techniques and instrumentation used for performing appropriate evaluation procedures.

PREREQUISITE: ATHLETIC TRAINING MAJORS ONLY. ESS 235, 245, 246.

ESS302 Sport Marketing

3 credits

Fall & Spring Semester

This course is designed as a marketing course that deals exclusively with Sport Marketing. Students are expected to develop comprehensive marketing and sponsorship plans. This course will require moderate to heavy computer knowledge. This course is designed to maximize the practical applications of marketing theory to the sport business environment.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS306 Essential Leadership in Sports and the Professions

3 credits

Fall & Spring Semester

A variety of leadership and management skills will be examined, including communication, problem solving, conflict management, group dynamics, and leadership theory. Practical application to sport and allied professions will be included. Self-assessment opportunities and exercises will be utilized.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS307 Motivational Strategies in Sport and the Professions

3 credits

Fall & Spring Semester

This course will examine the concepts of motivation as it pertains to sport and leadership responsibilities in work environments. Principles of extrinsic and intrinsic motivation, peak performance, goal setting, motivation strategies, and theories will be integrated.

ESS308 Ethical Decision Making in Sport and the Professions

3 credits

Fall & Spring Semester

This course will examine ethical dilemmas in decision-making and other contemporary issues in sports management and campus and community environment. Real and hypothetical situations will be utilized.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS321 Introduction to Systemic Exercise Physiology

3 credits

Spring Semester

The structure, function, and training of the cardiorespiratory system. Special emphasis on structural changes in the systems with exercise and their influence on cardiovascular performance, body composition, exercise efficiency and health.

PREREQUISITE: ESS 221 OR PERMISSION OF THE INSTRUCTOR.

ESS322 Exercise Physiology Laboratory: Cardiorespiratory

2 credits

Spring Semester

This course concentrates on collection of cardiorespiratory data. In addition, the application of these data to exercise prescription for specific athletic and non-athletic populations will be covered. Corequisite: ESS 321.

PREREQUISITE: COREQUISITE: ESS 321.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS340 Strength and Conditioning

3 credits

Fall & Spring Semester

An introductory class to strength and conditioning.

PREREQUISITE: ESS 245 OR ESS 246

ESS365 Principles of Exercise Prescription: Cardiovascular

3 credits

Spring Semester

This class is the study of the theory and principles behind the development of exercise programs. Students will learn how to accurately evaluate and develop individual exercise prescription based upon sound scientific research. Exercise prescriptions will be developed in accordance with the guidelines set forth by the National Strength and Conditioning Association and the American College of Sports Medicine.

PREREQUISITE: ONE YEAR OF BIOLOGY.

ESS366 Exercise Physiology Laboratory: Assessment

1- 3 credits

Fall & Spring Semester

ESS401 Legal Aspects of Sport

3 credits

Fall & Spring Semester

This course will focus on legal issues applicable to sport administration, including tort law, risk management, negligence, and constitutional law. Relevant legal cases and concepts will be incorporated.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS403 Sport Information Management

3 credits

Fall Semester

This course centers upon the development of those skills that are necessary for Sport Information Directors. Specifically, these traditionally include marketing, media, promotion, and public relations. This course hopes to provide detailed knowledge to allow the student to participate in these activities in a professional manner.

PREREQUISITE: OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS405 Finance and Budget in Sport Administration

3 credits

Fall Semester

This course seeks to develop those financial skills necessary to understand a wide variety of financial concepts that impact sport managers. Such topics would include but not be limited to: Sport franchise value/valuations; economic impact of sport; risk-return models; financial statement analysis, and budgeting.

PREREQUISITE: FIN 300, ESS 201, ACC 211. OPEN ONLY TO SPAD MAJORS AND MINORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS408 Recreational Sport Programming

3 credits

Spring Semester

This course will cover the organization and administration of recreational sports including the programming, services, and delivery required at high schools, colleges and/or health/fitness industry.

PREREQUISITE: ESS 303, 401, 405.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS410 Problems and Issues in Sport Administration

3 credits

Fall Semester

This course is designed as a seminar course. Topical issues in high school, collegiate and professional sport are presented and discussed in detail. A number of student-centered activities are introduced to aid in the development of the student.

PREREQUISITE: SENIOR STANDING. OPEN ONLY TO SPAD MAJORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS421 Advanced Systemic Exercise Physiology

3 credits

Spring Semester

This course examines the short and long term physical responses to exercise and provides a general overview of the field of exercise physiology with reference to the latest trends in modern physiological research.

PREREQUISITE: ESS 232.

ESS431 Lab Experiences in Systemic Exercise Physiology

2 credits

Fall Semester

This class will present laboratory experiences relevant to theory and exercise physiology information presented in class. The laboratory experiences will sequentially follow lecture material presented in the classroom. Corequisite: ESS 421.

PREREQUISITE: COREQUISITE: ESS 421.

ESS443 Clinical Athletic Training Lab I

2 credits

Fall & Spring Semester

The application of athletic training practices in selected clinical education settings. The student must complete 150 hours of documented clinical educational hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize emergency procedures, first aid, and protective equipment. Successful completion of the retention process and formal admittance into the clinical portion of the Athletic Training Program.

PREREQUISITE: SUCCESSFUL COMPLETION OF THE RETENTION PROCESS AND FORMAL ADMITTANCE INTO THE CLINICAL PORTION OF THE ATHLETIC TRAINING EDUCATIONAL PROGRAM.

ESS444 Clinical Athletic Training Lab II

2 credits

Spring Semester

The application of athletic training practices in selected clinical and educational settings. The student must complete 150 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize general medical conditions, nutritional issues, psychosocial intervention, and injury prevention and risk management. Prerequisite: A grade of "B" or better in ESS 443.

PREREQUISITE: A GRADE OF "B" OR BETTER IN ESS 443

ESS455 Clinical Athletic Training Lab III

2 credits

Fall Semester

The application of athletic training practices in selected clinical and educational settings. The student must complete 180 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize acute care of injuries and illnesses, lower extremity orthopedic assessment, and risk management and injury prevention. Prerequisite: A grade of "B" or better in ESS 443 and 444. .

PREREQUISITE: A GRADE OF "B" OR BETTER IN ESS 443 AND ESS 444.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS456 Clinical Athletic Training Lab IV

2 credits

Spring Semester

The application of athletic training practices in selected clinical and educational settings. The student must complete 180 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize upper extremity orthopedic assessment, conditioning and rehabilitation, and therapeutic, and therapeutic modalities. Prerequisite: A grade of "B" or better in ESS 443, 444, and 455.

PREREQUISITE: A GRADE "B" OR BETTER IN ESS 443, 444. AND 455.

ESS457 Clinical Internship in Exercise and Sport Sciences

3 credits

Fall & Spring Semester & First & Second Summer Session

A comprehensive program of observation and supervised experience under the direction of a professional in the field for one semester. Supervised by University faculty.

PREREQUISITE: PERMISSION OF DEPARTMENT CHAIRPERSON.

ESS458 Clinical Internship in Exercise and Sports Sciences

3 credits

Fall & Spring Semester

A comprehensive program of supervised experience conducted under the direction of a professional in the field. Must culminate in research or hands-on experience conducted in the exercise science field.

PREREQUISITE: ESS 221, 321. OPEN TO ALL HONORS PROGRAM STUDENTS OR OTHER STUDENTS RECEIVING SPECIAL PERMISSION OF THE INSTRUCTOR.

ESS461 Therapeutic Modalities

2 credits

Fall Semester

Students will acquire the theoretical knowledge necessary for the clinical application of therapeutic modalities. Principles of electrophysics and biophysics, specific physiological effects and therapeutic indications and contraindications associated with cyotherapy, paraffin, ultrasound, electrotherapeutic and hydrotherapeutic modalities, intermittent compression, massage, and other contemporary modalities will be discussed. Prerequisite: Open only to ATHT majors. Must have completed ESS 140 and 141 and earned a grade of B or better for both courses. Corequisite: ESS 462.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES. COREQUISITE: ESS 462.

ESS462 Therapeutic Modalities Laboratory

1 credit

Fall Semester

This laboratory will help students apply the techniques and clinical skills related to the application of therapeutic modalities. Clinical education hours will give the student the opportunity to use the knowledge, skills, and techniques learned in this course. Students must complete 40 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Students must be additionally enrolled in ESS 461.

PREREQUISITE: STUDENTS MUST BE ADDITIONALLY ENROLLED IN ESS 461.

ESS463 Therapeutic Rehabilitation

2 credits

Spring Semester

This course enables students to acquire the theoretical knowledge for the clinical application of a rehabilitation program, physical examination, principles of therapeutic exercise, open and closed chain exercise, muscle re-education, and special therapeutic techniques such as aquatic therapy.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND ESS 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS464 Therapeutic Rehabilitation Laboratory

1 credit

Fall Semester

This laboratory will place emphasis on the techniques and clinical skills relating to the rehabilitation of athletic injuries. Clinical education hours in a therapeutic rehabilitation facility will give the students the opportunity to use the knowledge, skills, and techniques learned in this course. The student must complete 100 hours of documented clinical education hours, which apply toward the clinical education requirement for graduation. Students must be additionally enrolled in ESS 463.

PREREQUISITE: STUDENTS MUST BE ADDITIONALLY ENROLLED IN ESS 463

ESS465 Pharmacology

2 credits

Fall Semester

Introduction to the basic principles of pharmaceutical intervention and the implications for rehabilitation as related to the Certified Athletic Trainer.

PREREQUISITE: ESS 210, 230, 264. OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

ESS466 Principles of Exercise Prescription: Neuromuscular

3 credits

Spring Semester

The study of specific techniques to enhance neuromuscular performance in sport and everyday activity. Students will examine current training strategies and understand their strengths and weaknesses as applied to specific populations.

PREREQUISITE: ESS221

ESS470 Administrative Aspects of Athletic Training

2 credits

Fall Semester

Basic concepts of legal liability, budget, financial management, inventory control, facilities design and maintenance will be addressed. Additionally, the student will discuss the day to day supervision, scheduling and general administration of the athletic training room. Open only to ATHT majors. Must have completed ESS 140 and 141 and earned a grade of B or better for both courses.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. ESS 140 AND ESS 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

ESS474 Sport Medicine Modalities

3 credits

Fall Semester

Emphasis upon the basic therapeutic modalities of Sports Medicine. Includes the study of anatomical structure, biomedical evaluation techniques, and treatment

PREREQUISITE: ESS 473 AND EXPERIENCE OR PERMISSION.

ESS475 Organization and Administration of Athletic Training

3 credits

Fall Semester

Basic concepts of legal liability, budget, financial management, inventory control, facilities design and maintenance will be addressed. Additionally, the student will discuss the day to day supervision, scheduling and general administration of the athletic training room.

PREREQUISITE: OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS476 Seminar in Athletic Training

2 credits

Fall Semester

Topics in Athletic Training with discussions covering the NATA competencies and objectives in written and oral practical formats.

PREREQUISITE: PERMISSION OF THE INSTRUCTOR. ATHLETIC TRAINING MAJORS ONLY. OPEN ONLY TO ATHT MAJORS. MUST HAVE COMPLETED ESS 140 AND 141 AND EARNED A GRADE OF B OR BETTER FOR BOTH COURSES.

ESS477 Advanced Nutrition for Sports and Fitness

3 credits

Spring Semester

This course is an in-depth study of nutritional concerns of today's athlete. From Dehydration to Classic Carbohydrate Loading and from Female Athlete Triad to Ergogenic Aids in Sports, this course provides state of the art information on the latest nutritional issues for the exercising individual and for the athlete.

PREREQUISITE: ESS 221 OR PERMISSION OF THE INSTRUCTOR.

ESS478 Laboratory Experience in Nutrition

2 credits

Spring Semester

Students will learn how to calculate hydration needs for various sports, electrolyte concentrations of various commercial drinks, classic carbohydrate menus for endurance activities. Students will learn how to enter and interpret dietary food logs and records using computerized dietary analysis systems. Students will also learn more about energy density composition of various foods so that menu plans and dietary plans can be better understood. Corequisite: ESS 477.

PREREQUISITE: COREQUISITE: ESS 477.

ESS480 The Scientific Bases for Training Prescription: Neuromuscular

3 credits

Fall & Spring Semester

An examination of the scientific bases of modern training techniques designed to optimize performance, their functional application and potential impact on performance in sport and everyday activity.

PREREQUISITE: ESS 221

ESS490 Special Topics in Exercise and Sport Sciences

1- 9 credits

Fall & Spring Semester & First & Second Summer Session

This course is designed for students wishing to focus on a specific area of study within the umbrella of the Exercise and Sport Sciences curriculum. Students will be given supervision and support in a direction relevant to their needs and interests in a structured setting.

ESS495 Individual Study

1- 3 credits

Fall & Spring Semester & First Summer Session

The Application for Admission to Advanced Individual Study Form will be required.

PREREQUISITE: APPLICATION FOR ADMISSION TO ADVANCED INDIVIDUAL STUDY FORM REQUIRED.

ESS496 Individual Study

1- 3 credits

Fall & Spring Semester & Second Summer Session

The Application for Admission to Advanced Individual Study Form will be required.

PREREQUISITE: APPLICATION FOR ADMISSION TO ADVANCED INDIVIDUAL STUDY FORM REQUIRED.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS497 Internship in Sport Administration

1- 9 credits

Fall Semester

ESS 497: Internship in Sport Administration Field Experience that requires the student to participate in the work environment.

PREREQUISITE: ESS201. MUST HAVE EARNED A GRADE OF C OR BETTER IN ESS 201. SENIOR STANDING. OPEN ONLY TO SPAD MAJORS.

ESS498 Seminar in Sport Administration

3 credits

Spring Semester

Professional seminar to accompany internship in sport administration. Students will be required to interact with other internship students and supervisors on a regular basis and additionally, students will be required to submit comprehensive reports regarding their internship experiences.

PREREQUISITE: SENIOR STANDING. OPEN ONLY TO SPAD MAJORS. MUST HAVE TAKEN ESS 201 AND EARNED A C+ OR BETTER.

ESS515 Nutrition Diet and Exercise

3 credits

First Summer Session

Students will learn the latest concepts in weight management, physical fitness, and healthy eating. They will be able to understand the complex interplay of carbohydrates, protein, fat, water, fiber, vitamins, and minerals in the nourishment of their body and overall well-being. They will also examine serious health issues such as the use/misuse of anabolic steroids, weight control, and eating disorders.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

ESS520 Cellular Exercise Physiology

3 credits

Spring Semester

The course examines Bioenergetics and Muscular Physiology in training and detraining. Topics include the energy systems and their functional application during exercise, muscle structure and function, cellular and sub-cellular modifications of organelles and contractile mechanisms as a result of training and physiological bases of training techniques.

ESS521 Systemic Exercise Physiology

3 credits

Fall Semester

The study of the physiological effects of acute vs. chronic training on homeostatic function, musculoskeletal systems, energy system function, cardiovascular and the pulmonary systems. Student will be able to understand and interpret terminology and research literature published in the field.

PREREQUISITE: ONE YEAR OF UNDERGRADUATE CHEMISTRY AND ONE YEAR OF UNDERGRADUATE HUMAN BIOLOGY.

ESS522 Basic Statistics in Exercise and Sport Sciences

3 credits

Fall Semester & First & Second Summer Session

Introduction to basic statistical techniques commonly used in the Exercise and Sport Sciences. Designed as a prerequisite for ESS 646.

ESS523 Athletic Training Techniques - Assessment

3 credits

Fall Semester

This course will introduce the basic concepts related to injury evaluation. With this information, and with the development of basic skills, the student should be able to form an impression of the nature of most musculoskeletal injuries.

PREREQUISITE: ESS 525 AND 588.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS524 Athletic Training Techniques - Rehabilitation

3 credits

Fall Semester

This course will introduce theoretical concepts that must be understood in order to be able to rehabilitate a musculoskeletal injury. Regarding actual rehabilitation techniques, the emphasis will be on therapeutic exercise with only a brief introduction to therapeutic modalities.

PREREQUISITE: ESS 525 AND 588.

ESS525 Advanced Kinesiology

3 credits

Fall & Spring Semester

In-depth study of the human skeletal and muscular systems with a focus on the mechanics of movement as related to physical activity, sports, and athletics.

PREREQUISITE: ESS 245 OR PERMISSION OF INSTRUCTOR.

ESS530 Laboratory Techniques in Functional Evaluation of Skeletal Muscle

3 credits

Spring Semester

This course examines the theories of data collection and collection techniques used to evaluate musculo-skeletal and neuromuscular function. The application of both computerized and non-computerized collection systems for performance evaluation is covered. The course is also designed to establish a clear linkage between the acute and chronic musculo-skeletal and neuromuscular changes that occur during exercise and the laboratory methods used to assess those changes. Collection theory, musculoskeletal and neuromuscular function, methods of strength evaluation, anaerobic power testing, electromyography, and a number of other functional parameters will be discussed.

PREREQUISITE: ESS 520.

ESS531 Laboratory Experiences in Systemic Exercise Physiology

3 credits

Fall Semester

This course provides a laboratory assessment of physiological principles and theories learned in the classroom setting. Focus will be on systemic application to exercise as an acute or chronic stressor. Corequisite: ESS 521.

PREREQUISITE: COREQUISITE: ESS 521.

ESS532 Sports Injuries: Prevention and Treatment

3 credits

Fall & Spring Semester

Prevention, diagnosis, treatment and rehabilitation of sports injuries. Anatomical and kinesiological applications to sports injuries.

PREREQUISITE: BIL 109.

ESS534 Contemporary Issues in Sports Medicine

3 credits

Offered By Announcement Only

The study of special problems and contemporary issues associated with sports medicine.

PREREQUISITE: BACKGROUND AND EXPERIENCE OR PERMISSION.

ESS540 Exercise Psychobiology

3 credits

Fall & Spring Semester

This course is designed primarily for graduate level Exercise and Sport Science students who are interested in the biochemical basis of personality as affected by exercise and sport. The course involves interdisciplinary integration and comprehensive reviews of ancient and current literature dealing with exercise, stress, emotional, personality, immune system function and neuroendocrine function.

PREREQUISITE: ESS 521.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS541 Neurophysiology in Exercise Science

3 credits

Spring Semester

Examination of the functions of the central, peripheral, and autonomic nervous systems in regulating exercise homeostasis and the structural and functional modifications to the systems through training. NOTE: This course is a writing intensive course. This means that all examinations and papers include a critical evaluation of the student's ability to convey information using the written word.

PREREQUISITE: ESS 520.

ESS545 Special Sport Populations

3 credits

Spring Semester

This course presents an in-depth examination of chronic conditions and medical problems commonly observed in athletes. Students will learn about the etiology of the medical condition, how exercise affects the condition, and the most recent therapeutic treatments prescribed for the condition.

PREREQUISITE: ESS 521.

ESS555 Exercise Biochemistry

3 credits

Fall Semester

This course presents an in-depth examination of the biochemical basis of exercise. Topics include neural control of movement, neuro-endocrine control of metabolism, the kinetics of glucose, lactate, free fatty acids, and amino acids, and the influence of contractile activity on skeletal muscle gene expression. Both the instructor and the students will incorporate current peer-reviewed research in the field.

PREREQUISITE: ONE YEAR OF CHEMISTRY AND BIOCHEMISTRY RECOMMENDED.

ESS561 Advanced Tests and Measurements in Exercise and Sport Sciences

3 credits

Fall Semester

Advanced techniques of testing, measurement, and evaluation in exercise and sport sciences. Individual projects.

PREREQUISITE: PERMISSION.

ESS562 Fiscal Management in Sports Administration

3 credits

Fall Semester

Fiscal management as related to athletic sports administration, recreation and leisure sports administration, and physical education.

PREREQUISITE: BACKGROUND AND EXPERIENCE IN EXERCISE SCIENCE OR PERMISSION.

ESS563 Facilities and Event Management

3 credits

Spring Semester

This course is designed to introduce students to principles and practices of planning, funding and managing facilities associated with sports participation including professional sport venues, college sports, parks, recreational sport and health/fitness clubs. Students will gain an understanding of promoting, marketing, and maintaining sport facilities.

PREREQUISITE: ESS 566.

ESS564 Principles of Sports Marketing

3 credits

Fall & Spring Semester

This course will focus on the vast world of sports marketing. The basic principles of marketing and marketing management will be introduced and integrated with application of these principles to sport and sports-related organizations.

PREREQUISITE: ESS 301 OR PERMISSION OF INSTRUCTOR.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS565 Legal Aspects of Sports and Exercise Science

3 credits

Spring Semester

Legal liability, personal injury, negligence and other related legal aspects of sports and exercise science.

PREREQUISITE: BACKGROUND AND EXPERIENCE OR PERMISSION.

ESS566 Organization and Administration of Sports Programs

3 credits

Fall Semester

Administrative and organizational procedures and problems specific to athletic administration, recreation and leisure sports administration, and physical education.

PREREQUISITE: BACKGROUND AND EXPERIENCE IN EXERCISE SCIENCE OR PERMISSION.

ESS567 Elements of Sports Psychology

3 credits

Fall & Spring Semester

Introduction to the study of sport and exercise psychology including theory, current research and practical application.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

ESS568 Developmental Sports Psychology

3 credits

Offered By Announcement Only

Examination of the concept of sport psychology which includes but is not limited to performance, enhancement, student performance and academic application.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

ESS571 Sport Industry in South Florida

3 credits

Spring Semester

This course will examine the various sport based organizations/events that are part of the sport industry in South Florida. Study of these organizations/events will include (a) products/services produced, (b) organizational structure, (c) economic impact on the local community, (d) key management personnel, (e) physical facilities, and (f) internship/employment opportunities.

ESS572 Creative Approaches to Problem Solving and Conflict Management

3 credits

Spring Semester

This hands-on course will examine the concepts of problem solving and conflict management from both personal and organizational perspectives. Students will have the opportunity to study in-depth both of these concepts (and the relationship between them) through a combination of lecture, theory, individual and group activities, readings, practical exercises, and self-assessment tools.

ESS573 Sport Governance

3 credits

Spring Semester & Second Summer Session

This course provides the student with an examination of the governing organizations of sport at the youth, secondary, intercollegiate, professional, international, sport specific and Olympic levels. In addition, policy development in sport management will be explored.

PREREQUISITE: GRADUATE STANDING.

ESS574 Ethical Decision Making in Sports and the Professions

3 credits

Fall & Spring Semester

This course will examine ethical decision-making in a variety of environments with an emphasis on sport professions. Real and hypothetical situations will be utilized, and the course will combine theory with practical application. The case method in sport ethics will be incorporated.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS575 Essential Leadership in Sports and the Professions

3 credits

Fall & Spring Semester

This course will examine the concept of leadership as it pertains to sports and other professions. Various leadership and management skills will be included with a focus on practical applications in a work environment. Theory and self-assessment strategies will be incorporated.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

ESS576 Practical Approach to Motivation and Ethical Decision Making

1- 3 credits

Spring Semester

A critical study of practical problems of professionals in Exercise and Sport Sciences.

PREREQUISITE: BACKGROUND AND EXPERIENCE OR PERMISSION.

ESS577 Advanced Nutrition for Sports and Fitness

3 credits

Spring Semester

This course presents an in-depth study of the nutritional concerns of today's recreational and competitive athlete. Topics include Dehydration, Classic Carbohydrate Loading, Protein needs, Ergogenic Aids, and more. State-of-the-art research in the field is provided. This is also a writing intensive course. Thus, writing skills will represent an integral part of one's grade.

PREREQUISITE: ESS 155 AND 221 OR 521.

ESS578 Pharmacology for Allied Health Professionals

3 credits

Spring Semester

The study of drug families and drugs in common use across spectra of age, illness, disease, and disability. Students will understand body systems treated with current pharmaceuticals over-the-counter (OTC) medications, and nutraceuticals. Actions, key adverse effects, and influences on individuals undergoing physical activity will be emphasized.

PREREQUISITE: ESS 521.

ESS579 Principles of Exercise Prescription/Assessment: Cardiovascular

3 credits

Spring Semester

This course presents a comprehensive overview of the physical, physiological and metabolic responses of the human body to exercise testing and training both in health and disease. The successful student will gain an understanding of the process involved in prescribing safe and effective therapeutic exercise in healthy individuals as well as patients with heart and lung disease, diabetes and obesity. An overview of environmental and legal considerations in the prescriptive process will also be discussed.

PREREQUISITE: ESS 521.

ESS580 Principles of Exercise Prescription: Neuromuscular

3 credits

Fall Semester

An examination of the scientific bases of modern training techniques designed to optimize performance, their functional application and potential impact on performance in sport and everyday activity.

PREREQUISITE: ESS 520 AND 521 OR PERMISSION OF THE INSTRUCTOR.

ESS585 Advanced Topics in Exercise and Sport Sciences

3 credits

Spring Semester & First & Second Summer Session

This course will provide a synthesis of essential concepts in specialty subjects relevant to one's field of interest.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
EXERCISE & SPORT SCIENCES

ESS586 Exercise Prescription/Assessment Laboratory

3 credits

Fall Semester

PREREQUISITE: ESS 579.

ESS587 Laboratory Experience in Sports Nutrition

3 credits

Spring Semester

This laboratory class provides case study analyses and computerized nutrient analysis systems designed to evaluate nutrition and hydration needs of the recreational and competitive athlete. From urinalysis and blood work to body composition and computerized nutrient data base systems, this laboratory provides a clinical approach to evaluating the nutrition status of the exercising individual. Corequisite: ESS 577.

PREREQUISITE: COREQUISITE: ESS 577.

ESS588 Gross Anatomy in Exercise and Sport Sciences

3 credits

Spring Semester

Human dissection of the major muscles, arteries and nerves of the body. Course is held at the University of Miami, Medical Campus, cadaver laboratory. Special consideration is given to injury sites in sports such as the knee, shoulder, elbow, neck and spinal areas. Students are required to pay a laboratory fee for this class.

PREREQUISITE: BIL 109.

ESS589 Directed Readings in Exercise and Sport Sciences

1- 3 credits

Fall & Spring Semester & First & Second Summer Session

Directed Readings focusing on research and contemporary trends.

PREREQUISITE: PERMISSION OF CHAIRPERSON.

ESS590 Special Topics in Exercise and Sport Sciences

1- 3 credits

Fall & Spring Semester & First & Second Summer Session

This course is designed for students wishing to focus on a specific area of study within the umbrella of the Exercise and Sport Sciences curriculum. Students will be given supervision and support in a direction relevant to their needs and interests in a structured setting.

PREREQUISITE: BACKGROUND AND EXPERIENCE OR PERMISSION.

TEACHING AND LEARNING

TAL101 Social and Technological Foundations of Education.

3 credits

Fall & Spring Semester

Interdisciplinary overview of the historical development of education in the United States. topics include history of education, schooling as a social institution, school funding, ethics, legal issues, racism, social class, sexism, homophobia and heterosexism, language-based discrimination and religion. This course emphasizes the interdependent nature of school and culture; it critically analyzes issues facing children, parents, and educators using this larger cultural framework.

TAL102 Educational Technology Laboratory

1 credit

Fall & Spring Semester

Applications of technology to education, including use of technology in instruction, assessment, and productivity. Field based. Corequisite: TAL 101.

PREREQUISITE: COREQUISITE: TAL 101.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL103 Psychological Foundations of Education

2- 3 credits

Fall & Spring Semester

Overview of major frameworks in psychology that inform teaching and learning within classroom settings. Major theories of development related to language, affect and cognition across the life span and within diverse settings. Attention is drawn to contributions from social and personality psychology, cognitive science, testing and psychometrics to promote learning through classroom instruction and assessment.

TAL107 American Sign Language I

3 credits

Fall Semester

This course is designed to allow participants to learn about Deaf Culture and be able to sign with sufficient fluency to discuss work, social, and family topics using two to four sentence responses.

TAL191 Developmental Reading for College Students

3 credits

Fall & Spring Semester

Instruction in college level reading strategies based on individual student needs. Emphasis on vocabulary, comprehension and techniques of test preparation.

TAL203 Children's Literature

3 credits

Fall & Spring Semester

History, trends, and genres of children's literature with emphasis on children's literature as a curriculum resource.

TAL204 Building Positive Relationships in Diverse Inclusive Secondary Schools.

3 credits

Fall & Spring Semester

Course is designed to assist general education teachers in meeting the needs of diverse secondary school students. Emphasis is placed on language and culture in the classroom, as well as students with disabilities.

PREREQUISITE: TAL 101.

TAL207 American Sign Language II

3 credits

Fall Semester

This course is designed to allow participants to learn about Deaf Culture and be able to sign with sufficient fluency to discuss work, social, and family topics using four to six sentence responses. Students will be able to independently participate in a signed conversation without the use of voicing.

PREREQUISITE: TAL 107 (ASL I).

TAL304 Content Area Reading and Learning Strategies

3 credits

Fall & Spring Semester

Essentials of literacy instruction in different subject areas for middle, junior, and senior high schools; instructional methods and materials for development of language arts, reading, and study skills. Emphasis is placed on selecting appropriate materials, motivating students, and helping students with exceptional needs and students who are English language learners. Field experience required.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL305 Classroom and Behavior Management

3 credits

Fall & Spring Semester

The principles of behavior analysis and classroom management strategies, both preventative and problem solving. Special emphasis includes effective communication with students, parents and other stakeholders; meeting the needs of all learners based on individual differences, cultural and linguistic diversity; knowledge of research-based strategies that support intellectual, personal and social well-being and development of all students; planning and conducting lessons in a safe, efficient and supportive learning environment. Field experience required.

PREREQUISITE: TAL 101

TAL308 Language Development for Linguistically and Culturally Diverse Children

3 credits

Fall & Spring Semester

Course provides an introduction to theories of linguistics as well as first and second language acquisition. Readings and lectures serve to highlight the development of language and language challenges faced by students for whom Standard English is a second language and/or a second dialect. Theories of linguistics are used to identify, explain and assess literacy challenges. Field experience required. This course counts as one of two required stand-alone ESOL courses.

PREREQUISITE: TAL 103

TAL320 Introduction to Literacy Assessment and Instruction in Elementary School.

3 credits

Fall & Spring Semester

Multidisciplinary survey of reading and writing acquisition in the elementary school. Assessment and instruction in the major components of reading: phonological awareness, word identification and phonics, fluency, vocabulary, and comprehension.

PREREQUISITE: TAL 308 OR TAL 506; APPLICATION TO TEACHER CANDIDACY. COREQUISITE: TAL 321

TAL321 Language Arts in the Elementary School.

3 credits

Fall & Spring Semester

This course focuses on competencies in reading, writing, listening, speaking, viewing and visual representation. Children's literature is infused. Emphasis on research-based practices and multicultural awareness. Field experience required.

PREREQUISITE: TAL 308 OR TAL 506; APPLICATION TO TEACHER CANDIDACY. COREQUISITE: TAL 320

TAL324 Education and the Arts

3 credits

Fall & Spring Semester

Exploration of the fine and performing arts and their relation to Pre-K to 12 education. Emphasis is placed on experiential learning and methods of incorporating the arts in school curricula. The course also includes a focus on the value of the arts to the individual and society.

PREREQUISITE: SOPHOMORE STANDING AND ABOVE.

TAL330 Introduction to the Education of Exceptional Individuals

3 credits

Fall & Spring Semester

A survey course providing a general orientation to Exceptional Individual Education as an integral part of the general education structure. Includes an introduction to appropriate educational programs for exceptional individuals.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL332 Assessment of Exceptional Students

3 credits

Spring Semester

Assessment process and techniques used in the identification, assessment, and instruction of exceptional students.

PREREQUISITE: TAL 101, 102, 202, 205, 330.

TAL341 Introduction to Models of Curriculum Development in TESOL

3 credits

Offered By Announcement Only

This course is designed to provide participants with professional training in developing multicultural curricula and instructional materials for students in the process of learning English as a new language.

PREREQUISITE: TAL 101; 102; 243 OR PERMISSION OF INSTRUCTOR.

TAL390 Topics in Education

3 credits

Spring Semester

Review of emerging policy, practice, empirical research and scholarly writing on important educational issues for which formal course title and syllabus have not been developed and formalized in the UM Bulletin. Allows for experimental instructional formats. Course number indicates appropriate student audience. See Course Notes for specific topic.

TAL422 Mathematics Instruction in the Elementary School

3 credits

Fall & Spring Semester

Principles and practices in the teaching of elementary-school mathematics. Attention is paid to infusion of technology, linguistic and cultural diversity, students with exceptionalities, and the origins of gender bias. Field experience required.

PREREQUISITE: APPLICATION TO TEACHER CANDIDACY.

TAL423 Science and social studies instruction in the Elementary School.

3 credits

Fall & Spring Semester

Principles and practices in the teaching of elementary-school science and social studies. Attention is paid to infusion of technology, linguistic and cultural diversity, students with exceptionalities, and the origins of gender bias. Field experience required.

PREREQUISITE: ADMISSION TO TEACHER CANDIDACY.

TAL425 Inclusive Classrooms in the Elementary School

3 credits

Fall & Spring Semester

The course prepares elementary school teachers to meet the individual needs of students with exceptionalities who have been integrated into the general education classroom. Field experience required.

PREREQUISITE: NONE. COREQUISITE: TAL 422

TAL426 Practicum in Reading

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3 credits

Fall & Spring Semester

Supervised practicum in reading and writing. Emphasis is on assessment and interventions for elementary students with a range of academic, linguistic and cultural challenges in becoming proficient readers.

PREREQUISITE: TAL 320 AND 321.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL428 ESOL Curriculum and Methods and Assessments

3 credits

Fall & Spring Semester

The course addresses the application of TESOL theories, principles, and current research to the use of curriculum, methods, and assessment. In doing so, the course focuses on an understanding of the differences between curriculum, methods, and assessment designed for children who are native speakers of Standard English and those designed for ESOL. Specific TESOL modifications appropriate for content areas are also addressed. Field experience required. This course counts as the second of two required ESOL specific courses.

PREREQUISITE: TAL 308 OR TAL 506

TAL432 Curriculum and Instruction in Exceptional Student Education for K-6 Settings

3 credits

Fall Semester

Instructional strategies and materials appropriate for teaching students enrolled in Exceptional Student Education programs in K-6 settings. Students must be enrolled concurrently in TAL 434. 50 hours of field experience required in an assigned K-6 ESE setting.

PREREQUISITE: TAL 101, 102, 202, 205, 330, 332, AND ADMISSION TO TEACHER CANDIDACY.

TAL434 Curriculum and Instruction in Exceptional Student Education for Grades 7-12 Set

3 credits

Fall Semester

Instructional strategies and materials appropriate for teaching students enrolled in Exceptional Student Education programs in grades 7-12 settings. Students must be enrolled concurrently in TAL 432. 50 hours of field experience required in an assigned K-6 ESE setting.

PREREQUISITE: TAL 101, 102, 202, 205, 330, 332, AND ADMISSION TO TEACHER CANDIDACY.

TAL444 Instruction in Secondary Science

2- 3 credits

Fall Semester

Analysis of methods, materials, and content appropriate for teaching science in the secondary school.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

TAL446 Methods of Teaching Theatre

3 credits

Offered By Announcement Only

Analysis of methods, materials, and content appropriate for teaching the theatre arts in elementary and secondary school.

TAL460 Teaching and Learning in Context

3 credits

Offered By Announcement Only

This capstone course, taken just prior to Associate Teaching, provides an in-depth treatment of theories and practices in teaching and learning from cognitive and sociocultural perspectives. Includes classroom applications of modern learning theories; ethical, cultural and legal issues in teaching. The course reviews and reinforces observation skills and reflective teaching practices. The course emphasizes the relationship of theory and practice as students prepare for associate teaching.

PREREQUISITE: CO-REQUISITE: APPLICATION TO ASSOCIATE TEACHING IS PENDING.

TAL470 Associate Teaching in the Elementary School (Semester-Long)

6- 9 credits

Fall & Spring Semester

A comprehensive semester-long program in observation and supervised teaching in the elementary school. The student spends full time in an elementary school participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: ACCEPTANCE TO ASSOCIATE TEACHING. COREQUISITE: TAL 480

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL471 Associate Teaching in the Elementary Schools for K-12 Areas

3- 6 credits

Fall & Spring Semester

A comprehensive program in observation and supervised teaching in the elementary school. The student spends full-time for one half a semester in an elementary school, participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

TAL473 Associate Teaching in the Secondary School for K-12 Areas

3- 6 credits

Fall & Spring Semester

A comprehensive program in observation and supervised teaching in the secondary school. The student spends full time for one half a semester in a secondary school, participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

TAL477 Field Experience in Education

1- 9 credits

Offered By Announcement Only

Placement in government agencies, medical centers, adult education centers, public and private school classrooms, community agencies, and local businesses related to academic course work or area of interest. A minimum of 30 hours per credit of supervised field experience. One hour bi-weekly integrative seminars with faculty supervisors to focus on personal meaning derived from and given to the experience, self-evaluation, group sharing, and discussion of commonalities of experiences is required.

PREREQUISITE: PERMISSION OF ADVISOR.

TAL478 Associate Teaching in Elementary School (Year-Long)

4- 8 credits

Offered By Announcement Only

A comprehensive year-long program in observation and supervised teaching in the elementary school. The student spends full time in an elementary school participating in all activities of the teacher under the guidance of school and university personnel following the calendar of the school system.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

TAL480 Seminar on Teaching

1- 3 credits

Fall & Spring Semester

The seminar is designed to support teacher candidates during the associate teaching experience. Students receive support and assistance in completing Florida Educator Accomplished Practices (FEAP) electronic portfolios. Students share, reflect, and discuss their daily experiences in class during culminating experience in the field.

PREREQUISITE: COREQUISITE: CONCURRENT WITH ASSOCIATE TEACHING.

TAL490 Advance Topics in Education

3 credits

Spring Semester

Review of emerging policy, practice, empirical research and scholarly writing on important educational issues for which formal course title and syllabus have not been developed and formalized in the UM Bulletin. Allows for experimental instructional formats. Course number indicates appropriate student audience. See Course Notes for specific topic.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL495 Individual Study

1- 3 credits *Fall & Spring Semester & First & Second Summer Session*
Individual work on a special project under faculty guidance. Application for Admission to Advanced Individual Study will be required.
PREREQUISITE: PERMISSION OF DIRECTING FACULTY MEMBER AND DEPARTMENT CHAIRMAN.

TAL501 Classroom Based Assessment

3 credits *Fall & Spring Semester*
Principles and classroom applications of educational measurement and assessment.

TAL502 Classroom Based Research

3 credits *Offered By Announcement Only*
Application of research principles to evaluation and improvement of teacher effectiveness. Use of scientific methods in problem solving and decision making in the classroom. Student experiences in the planning, conduct, analysis and reporting of classroom research are included.

TAL503 Micro-Computer Applications in Education

3 credits *Spring Semester*
Microcomputer applications in early childhood, elementary, and secondary English, Social Studies, Science, and Mathematics education.

TAL504 Building Positive Relationships in Inclusive Secondary Schools

3 credits *Fall & Spring Semester*
Designed to assist general education teachers in meeting the needs of diverse secondary school students. Focus on students with disabilities, language and culture in the classroom, and developing culturally competent classroom management methods.
PREREQUISITE: TAL 101

TAL506 Issues and Strategies for ESOL

3 credits *Offered By Announcement Only*
This course provides a comprehensive foundation in ESOL (English for Speakers of Other Languages) competencies based on Florida's mandates and TESOL standards. Theory and practice will be emphasized in the areas of applied linguistics, cross cultural communication and understanding, methods of teaching, assessment, and curriculum and material development.
PREREQUISITE: TAL 101 AND 204 OR PERMISSION OF INSTRUCTOR.

TAL508 Teaching English Grammar for TESOL

3 credits *Offered By Announcement Only*
This course is designed to provide participants with a knowledge of the rules of modern English grammar and an ability to teach and test application of those rules in a range of language skill contexts to students whose native language is not English. Analysis of grammar texts and tests are emphasized.

TAL517 Curriculum, Assessment, Teaching and Learning for Physical Science

3 credits *Fall Semester*
Analysis of content knowledge, pedagogy, and materials appropriate for teaching physical science in the elementary school. The course content focuses on instructional practice with an emphasis on developing teacher content knowledge in physical science, pedagogy, and student literacy in physical science.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL518 Curriculum, Assessment, Teaching and Learning for Number, Operations, and Algebra

3 credits

Fall Semester

This course examines topics that address the mathematical ideas underlying number, operations and algebra. Related curriculum, instructional and assessment issues will be also discussed.

TAL520 Curriculum, Assessment, Teaching and Learning for Measurement and Geometry

3 credits

Fall & Spring Semester & First & Second Summer Session

Topics involving measurement and geometry in the K-16 mathematics curriculum, how students learn and reason, assessment, instructional strategies.

PREREQUISITE: GRADUATE STUDENT; ADVANCED UNDERGRADUATE WITH CONSENT OF PROFESSOR.

TAL521 Curriculum, Assessment, Teaching and Learning for the Life Sciences

3 credits

Fall Semester

Analysis of content knowledge, pedagogy, and materials appropriate for teaching life science in the elementary school. The course content focuses on instructional practice with an emphasis on developing teacher content knowledge in life science, pedagogy, and student literacy in life science.

TAL522 Curriculum, Assessment, Teaching and Learning in the Earth Sciences

3 credits

Fall Semester

Analysis of content knowledge, pedagogy, and materials appropriate for teaching Earth science in the elementary school. The course content focuses on instructional practice with an emphasis on developing teacher content knowledge in Earth science, pedagogy, and student literacy in life science.

PREREQUISITE: ADMISSION TO THE GRADUATE SCHOOL

TAL523 Curriculum, Assessment, Teaching and Learning for Data Analysis and Probability

3 credits

Fall & Spring Semester & First & Second Summer Session

Data in the elementary school: how to gather (biased and unbiased samples), store, manage, represent, analyze. Probabilistic inferences in elementary school: chance, odds, counting, related topics.

PREREQUISITE: GRADUATE STUDENT; ADVANCED UNDERGRADUATE WITH CONSENT OF PROFESSOR.

TAL524 Education and the Arts

3 credits

Fall Semester

Exploration of the fine and performing arts and their relation to PreK-12 education. Emphasis is placed on experiential learning and methods of incorporating the arts in school curricula. The course also includes a focus on the value of the arts to the individual and society.

TAL526 Practicum in Reading

3 credits

Fall & Spring Semester

Supervised practicum in reading and writing. Emphasis is on assessment and interventions for elementary students with a range of academic, linguistic and cultural challenges in becoming proficient readers.

PREREQUISITE: TAL 320, TAL 321

TAL527 Language and Assessment in ESOL

3 credits

Offered By Announcement Only

Study of language systems with a focus on understanding and applying linguistic terms. Course prepares teachers to conduct informal and formal assessment procedures with English language learners. Field experience with English language learners is required.

PREREQUISITE: TAL 531, 550 OR 620, 603, 622.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL528 ESOL Curriculum, Methods, and Assessment.

3 credits

Offered By Announcement Only

This course focuses on applying TESOL theories, principles, and current research to the development and use of instructional materials, curriculum, and methods. The course will enhance participant's knowledge of the regular English language arts curriculum in comparison with the ESOL curriculum.

PREREQUISITE: TAL 506.

TAL531 Educating Exceptional Students

3 credits

Fall & Spring Semester

A survey course in special education emphasizing characteristics and problems associated with various categories of exceptional learners. Policy, issues, and trends in special education will be discussed

TAL540 Instruction and Assessment in the Secondary School.

3 credits

Fall & Spring Semester

Research-based instructional processes in the secondary school.

PREREQUISITE: APPLICATION TO TEACHER CANDIDACY.

TAL541 Instruction in Secondary English.

2- 3 credits

Fall Semester

Analysis of methods, materials, and content appropriate for teaching language arts in the secondary school.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

TAL542 Instruction in Secondary Mathematics.

3 credits

Offered By Announcement Only

Analysis of methods, materials, and content appropriate for teaching mathematics in the secondary school.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

TAL543 Instruction in Secondary Science.

3 credits

Offered By Announcement Only

Analysis of methods, materials, and content appropriate for teaching science in the secondary school.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

TAL544 Instruction in Secondary Social Studies.

2- 3 credits

Fall Semester

Analysis of methods, materials, and content appropriate for teaching the social sciences in the secondary school.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

TAL550 Language and Early Reading Instruction

3 credits

Fall Semester

Factors related to emergent literacy with an emphasis on diverse aspects of language that influence literacy and learning; development of emergent literacy and word perception; emergent literacy curriculum development; appropriate assessment and instructional techniques. Understanding of reading as a process of student engagement in fluent decoding and construction of meaning. Writing intensive.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL551 Word Perception in Reading

3 credits

Offered By Announcement Only

Administration and interpretation of a standard reading inventory. An examination of the word recognition and vocabulary curriculum as well as appropriate assessment devices and instructional techniques.

TAL552 Reading Comprehension

3 credits

Spring Semester

Development of comprehension, rate, and study skills; reading in the content areas; evaluation of materials, organization of programs; issues, problems, and exceptional readers. Emphasis is placed on understanding reading as a process of student engagement in fluent decoding of words and construction of meaning.

TAL554 Literacy and Learning Strategies in the Content Area

3 credits

Fall & Spring Semester

Literacy instruction in content areas for grades 6 through 12; instructional methods and materials for development of language arts, reading, and study skills. Emphasis on appropriate materials, motivation, and support for students with exceptional needs and English language learners.

TAL570 Associate Teaching in the Elementary School.

6- 9 credits

Offered By Announcement Only

A comprehensive semester-long program in observation and supervised teaching in the elementary school. The student spends full-time in an elementary school participating in all activities of the teacher under the guidance of school and university personnel.
PREREQUISITE: ACCEPTANCE TO ASSOCIATE TEACHING.

TAL572 Associate Teaching in the Secondary School.

6- 9 credits

Offered By Announcement Only

A comprehensive program in observation and supervised teaching in the secondary school. The student spends full-time in a secondary school participating in all activities of the teacher under the guidance of school and university personnel.
PREREQUISITE: ACCEPTANCE OTO ASSOCIATE TEACHING.

TAL580 Seminar on Teaching

1- 3 credits

Offered By Announcement Only

Topical seminar to accompany associate teaching

TAL584 Topics in the Professional Development and Supervision of Teachers.

3 credits

Offered By Announcement Only

Topics include the preparation of clinical teachers to induct, guide, and supervise the field experiences of students and associate teachers; techniques in the observation and supervision of in-service teachers; creation and implementation of professional development plans; reading in the research on teacher development across the career.
PREREQUISITE: TEACHING EXPERIENCE.

TAL590 Topics in Education

3 credits

Spring Semester

Review of emerging policy, practice, empirical research and scholarly writing on important educational issues for which formal course title and syllabus have not been developed and formalized in the UM Bulletin. Allows for experimental instructional formats. Course number indicates appropriate student audience. See Course Notes for specific topic.

University of Miami Bulletin, 2009-2010
Undergraduate Course Listing
SCHOOL OF EDUCATION
TEACHING AND LEARNING

TAL591 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL592 Seminar in Teaching English as a Foreign Language

3 credits

Offered By Announcement Only

This course is designed to provide prospective international teachers of English as a new language with essential strategies and multiple models of teaching techniques; and the theoretical framework to apply these strategies and techniques.

PREREQUISITE: ADMISSION TO GRADUATE PROGRAM.

TAL593 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL594 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL595 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL596 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL597 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL598 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.

TAL599 Workshop in Education

1- 6 credits

Offered By Announcement Only

A critical study of practical problems of teachers. Significant problems are defined, literature and research are reviewed, and individual or small group projects are required.