

**University of Miami Bulletin, 2009 – 2010**  
**Graduate 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**  
**Graduate Course Listing**  
**SCHOOL OF EDUCATION**  
**EDUCATIONAL & PSYCHOLOGICAL STUDIES**

**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

**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.

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**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

**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.

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**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.

**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.

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**EDUCATIONAL & PSYCHOLOGICAL STUDIES**

**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.

**EPS593 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS594 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS595 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS596 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS597 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS598 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS599 Workshop in Education**

*1- 3 credits*

*Offered By Announcement Only*

Study in special interest areas in education.

**EPS601 Philosophy of Education**

*3 credits*

*Offered By Announcement Only*

Analysis of the works of major educational theorists--both historical and contemporary. The role of education in shaping and defining people and culture will be emphasized.

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**EPS603 Higher Education in the United States: From Harvard to Present**

*3 credits*

*Fall Semester*

Broad view of issues and problems in higher education. Fundamental ideas and significant literature are analyzed from historical, philosophical, and societal perspectives.

**EPS604 Group Dynamics and Communication Skills**

*3 credits*

*Offered By Announcement Only*

Emphasis on group dynamics, group procedures and communication skills.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**EPS605 Psychological Bases of Education**

*3 credits*

*Fall Semester*

Review and extension of basic principles of psychology underlying educational practice.

Basic concepts of educational psychology which contribute to effective education will be discussed.

PREREQUISITE: TAL 260 OR EQUIVALENT.

**EPS607 Advanced Individual Study**

*1- 3 credits*

*Fall & Spring Semester*

Individual work on a special project under faculty guidance.

PREREQUISITE: APPLICATION FOR ADVANCED INDIVIDUAL STUDY FORM REQUIRED.

**EPS608 Advanced Individual Study**

*1- 3 credits*

*Fall & Spring Semester*

Individual work on a special project under faculty guidance.

PREREQUISITE: APPLICATION FOR ADVANCED INDIVIDUAL STUDY FORM REQUIRED.

**EPS610 Therapeutic Group Procedures**

*3 credits*

*First Summer Session*

This course examines both the theory and practice of group counseling. The course covers therapist issues, patient selection criteria, group structuring as well as basic therapeutic techniques. The course prepares students to design structured counseling groups, to prepare group counseling materials, and to lead counseling groups of various types.

PREREQUISITE: EPS 612 OR EQUIVALENT.

**EPS611 Assessment Strategies for Counselors II**

*3 credits*

*First Summer Session*

This course emphasizes use of procedures that facilitate preparation for, and evaluation of, mental health interventions. This course involves intensive study of theory and research relating to various models and processes of clinical assessment and practice in the performance of psychological evaluations.

PREREQUISITE: EPS 612 AND 613 OR EQUIVALENT.

**EPS612 Counseling Theories and Practice**

*3 credits*

*Spring Semester*

Study of theories and concomitant practices in counseling and therapy.

PREREQUISITE: EPS 510 OR EQUIVALENT.

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**EPS613 Psychopathology for Counselors**

*3 credits*

*Spring Semester*

In depth introduction to abnormal human behavior patterns of concern to mental health professionals. Clinical conditions will be examined within the context of currently most viable theory and research relating to etiology, assessment, diagnosis and treatment.

PREREQUISITE: EPS 505 AND 514

**EPS614 Counseling and Sexuality**

*3 credits*

*Second Summer Session*

Emphasis is placed on self-awareness and acceptance of all dimensions of human sexuality. Readings and classroom activities focus on biological aspects of sexuality, an understanding of sexual dysfunctions, and their treatment.

PREREQUISITE: EPS 505 AND 513

**EPS615 Family Therapy**

*3 credits*

*Spring Semester*

Concentrated study of several approaches to family therapy including systemic and psychosocial perspectives. Theory and techniques of family therapy are taught in lecture, videotape, and simulation.

PREREQUISITE: EPS 515 OR PERMISSION OF INSTRUCTOR.

**EPS616 Therapy for Couples**

*3 credits*

*First Summer Session*

Theory and technique linked to working with couples, in marriage and in other relationships.

PREREQUISITE: EPS 515 AND 612 OR PERMISSION OF INSTRUCTOR

**EPS617 Seminar in Counseling Psychology**

*2- 9 credits*

*Offered By Announcement Only*

A rotating-topic seminar in which various special topics will be presented. The particular topic being covered in a particular semester will be announced in the published class schedule.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**EPS618 Practicum in Counseling I**

*1- 3 credits*

*Fall & Spring Semester*

Supervised experience at the Institute for Individual and Family counseling and other appropriate clinical settings relating theoretical formulations to intervention strategies appropriate to specialization.

PREREQUISITE: PERMISSION OF PROGRAM COORDINATOR

**EPS619 Practicum Laboratory I**

*1- 3 credits*

*Fall & Spring Semester & First & Second Summer Session*

Individual, dyad, and small group supervision.

PREREQUISITE: PERMISSION OF PROGRAM COORDINATOR

**EPS620 Counseling Psychology: Theory, Research and Practice**

*3- 6 credits*

*Fall & Spring Semester*

Orientation to counseling psychology as a discipline including theories, research methodology, contemporary research, lifestyle and career development theory, and professional issues. Required of all first year counseling psychology students.

May be taken for 3 or 6 credits to a maximum of 12 credits.

PREREQUISITE: ADMISSION TO COUNSELING PSYCHOLOGY DOCTORAL PROGRAM.

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**EPS621 Psychological Appraisal I**

*3 credits*

*Fall Semester*

Orientation to psychological appraisal with emphasis on development of skill in assessment of intellectual functioning.

PREREQUISITE: DOCTORAL STUDENT IN COUNSELING OR CONSENT OF INSTRUCTOR.

**EPS622 Psychological Appraisal II**

*3 credits*

*Spring Semester*

Orientation to psychological appraisal with emphasis on use of procedures which facilitate preparation for, and evaluation of, intervention efforts in the personality and social-behavioral areas.

PREREQUISITE: EPS 621.

**EPS623 Substance Abuse and Addictions: Theories and Counseling**

*3 credits*

*Fall Semester*

Theories and research on individual, systemic causes, and outcomes of substance abuse, and concomitant practices in counseling and therapy.

PREREQUISITE: EPS 612 OR PERMISSION OF INSTRUCTOR.

**EPS624 Theory and Practice with Children and Adolescents**

*3 credits*

*Second Summer Session*

Course prepares students to provide preventive and therapeutic interventions with children and adolescents including theory, research, and practice.

PREREQUISITE: EPS 612 OR PERMISSION OF INSTRUCTOR

**EPS625 Research and Program Evaluation in Counseling**

*3 credits*

*Spring Semester*

Course focuses on the interpretation and application of research data as applied to clinical practice. Skills in using behavioral research-based literature to identify, evaluate and interpret appropriate interventions are also emphasized.

PREREQUISITE: EPS 510, 512, 514, 612 AND 613 OR EQUIVALENTS OR PERMISSION OF INSTRUCTOR.

**EPS628 Doctoral Practicum I**

*2- 9 credits*

*Fall & Spring Semester*

Supervised counseling experiences with clients at the Institute for Individual and Family Counseling. Individual and small group supervision by program faculty.

PREREQUISITE: ADMISSION TO COUNSELING AND PSYCHOLOGY DOCTORAL PROGRAM

**EPS629 Doctoral Practicum II**

*1- 9 credits*

*Fall & Spring Semester*

Supervised counseling and assessment experience in outside agencies, hospitals and community settings. Small group case conference conducted by program faculty.

PREREQUISITE: EPS 628

**EPS630 Advanced Practicum in Counseling Psychology**

*1- 9 credits*

*Fall & Spring Semester & First & Second Summer Session*

Supervised experience appropriate to the work of the counseling psychologist.

PREREQUISITE: EPS 629 AND PERMISSION OF INSTRUCTOR.

**EPS631 Student Diversity in American Higher Education**

*3 credits*

*Fall Semester*

Emphasis on the diversity of today's undergraduate students. An examination of the sociological context and philosophical orientation of contemporary college students is included.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

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**EPS633 Organization of Higher Education II: Governance, Leadership and Finance**

*3 credits*

*Fall Semester*

Provides an overview of selected topics in governance, administrative leadership and finance in higher education.

PREREQUISITE: EPS 533 OR PERMISSION OF INSTRUCTOR.

**EPS634 Supervision in Counseling Psychology**

*1- 2 credits*

*Fall & Spring Semester*

The course includes a didactic presentation of theories of supervision and consultation. Application of supervision theories with opportunities to practice beginning supervisor skills.

PREREQUISITE: EPS 628

**EPS635 College Student Development: Theory, Research and Practice**

*3 credits*

*Spring Semester*

Emphasis on student growth and development during college and an analysis of the factors which affect development along cognitive and affective dimensions. An in-depth examination of college student development theories is included.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**EPS636 Critical Issues in Student Affairs**

*3 credits*

*Offered By Announcement Only*

Emphasis on the most pressing issues facing the profession of student affairs today including diversity, funding, staff retention and the law and student affairs.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**EPS637 Seminar in Curriculum and Supervision**

*3 credits*

*Offered By Announcement Only*

Laboratory course for developing curriculum materials and making curriculum changes. Students will develop materials and plans needed in their institutions.

**EPS640 Enrollment Management: Theory and Practice**

*3 credits*

*Fall Semester*

Comprehensive overview of principles and practices of a strategic process that begins with recruitment and continues through graduation.

**EPS641 Advanced Seminar in Enrollment Management**

*3 credits*

*Spring Semester*

In-depth exploration of topics in enrollment management, including market research, market testing, pricing strategies, strategic planning, and development of a future vision.

PREREQUISITE: EPS 640.

**EPS642 Curricula in Higher Education**

*3 credits*

*Offered By Announcement Only*

Consideration of the philosophical, psychological, and social bases of general, liberal, and graduate education. Analytical review of research on collegiate curriculums, programmatic innovations, and their effect are also included.

**EPS643 Nature of Collegiate Instruction**

*3 credits*

*Offered By Announcement Only*

Role of the college professor, academic freedom, and tenure. Organization and presentation of knowledge in one's discipline will be emphasized. Use of micro-teaching and other advanced techniques as well as the development of course outlines and evaluation of self-instructional procedures will also be covered.

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**EPS646 Seminar in Higher Education/Enrollment Management: Contemporary Issues**

*3 credits*

*Fall Semester*

**EPS647 Seminar in Higher Education Administration: Contemporary Issues**

*3 credits*

*Spring Semester*

ONLINE course: Special refund policy apply. No refunds given after the start of the course. Open to only students admitted to the Online Graduate Certificate Program. Please contact Carol Wilson at [umiamionline@miami.edu](mailto:umiamionline@miami.edu) regarding registration. PREREQUISITE: ADMISSION TO DOCTORAL OR SPECIALIST PROGRAM OR PERMISSION OF INSTRUCTOR.

**EPS650 Meta-analytic methods for research synthesis.**

*3 credits*

*Fall Semester*

Meta-analysis is the general practice of combining, comparing, and interpreting statistics across a set of studies that investigate the same (or similar) phenomena using a properly motivated theoretical framework. Meta-analysis has become a popular tool in a variety of research disciplines, including the social sciences, education, medicine, and business. This course provides a thorough introduction to the theoretical foundations of meta-analysis, discusses commonly used statistical techniques, and analyzes several examples of the existing meta-analysis. Emphasis is placed on application, so that students are trained to independently perform a meta-analysis, from start to finish, in whatever substantive area interests students the most. PREREQUISITE: EPS 671 (ANOVA) AND EPS 672 (REGRESSION ANALYSIS), OR EQUIVALENT COURSES.

**EPS651 Survey Research Methods**

*3 credits*

*Fall Semester*

Focus on standards and practical strategies for designing different types of survey instruments and conducting survey research. Students are required to develop a proposal for survey research, develop a survey instrument, and conduct small pilot study by collecting, analyzing, and reporting survey data. PREREQUISITE: EPS 670 AND 533 OR EQUIVALENTS.

**EPS652 Nonparametric Methods for Quantitative Analysis**

*3 credits*

*Offered By Announcement Only*

A course in univariate nonparametric statistical techniques for applications in the behavioral and social sciences. These "sturdy" statistical methods will be developed by analogy with the corresponding parametric models. The SPSS-X statistical package will be used to analyze data sets provided by the instructor. PREREQUISITE: EPS 553.

**EPS653 Advanced Statistical Methods**

*3 credits*

*Offered By Announcement Only*

A course in univariate parametric statistical inference, topics included are hypothesis testing, estimation, sampling, analysis of variance, correlation analysis, simple, and multiple regression. PREREQUISITE: A BASIC COURSE IN STATISTICS AND A BASIC COURSE IN MEASUREMENT.

**EPS654 Program Evaluation**

*3 credits*

*Fall Semester*

Terminology, models, standards, practices, and common problems associated with program evaluation in Educational and Social Service settings. Prerequisite: EPS 670 and 553 or equivalents. PREREQUISITE: EPS 670 AND 553 OR EQUIVALENTS.

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**EPS659 Field Experience in Educational Research**

*2- 6 credits*

*Fall & Spring Semester*

A total of 125 hours of supervised practical experiences in educational research. Emphasis is placed on actual participation in a wide variety of on-going research projects through associations with an approved educational R & D center. Normally taken in two or three credit blocks.

PREREQUISITE: PERMISSION OF ADVISOR.

**EPS661 Measurement and Psychometric Theory**

*3 credits*

*Spring Semester*

This course provides an introduction to the theory and application of measurement and psychometric models used in the behavioral sciences.

PREREQUISITE: EPS 672 OR EQUIVALENT COURSE ON REGRESSION ANALYSIS.

**EPS662 Item Response Theory**

*3 credits*

*Fall Semester*

The purpose of the course is to provide training in the theory and application of item response theory (IRT) as it pertains to educational and psychological measurements. Focus will be given to discussing IRT as a measurement model used to measure the properties of items and individuals. Particular attention will be given to contrasting the properties of the IRT model to the classical test theory, and the application of IRT to actual data sets.

PREREQUISITE: EPS 672, EPS 661

**EPS663 Professional Psychological Spanish**

*3 credits*

*Second Summer Session*

Acquisition of Spanish language skills necessary for functioning as a psychologist or mental health professional. Implications of language for the therapy process.

Professional roles of bilingual counselors and psychologists.

PREREQUISITE: SPANISH FLUENCY.

**EPS664 Hispanic and Latino Psychology**

*3 credits*

*Offered By Announcement Only*

Human psychological functioning from an Hispanic and Latino perspective with a focus on Hispanic and Latino scholars in psychology.

PREREQUISITE: MULTICULTURAL COUNSELING OR EQUIVALENT.

**EPS665 Psychological Interventions with Hispanic/Latino Populations**

*3 credits*

*Fall Semester*

Explores the diversity of experiences among Hispanics and their implications for therapy. Topics include: racial diversity among Hispanics, sociopolitical factors in mental health, the impact of immigration on mental health, special psychological treatments: trauma treatment, family interventions and bilingual counseling.

PREREQUISITE: COURSE IN MULTICULTURALISM OR DIVERSITY OR PERMISSION OF INSTRUCTOR.

**EPS667 Seminar in Educational Research**

*3- 6 credits*

*Offered By Announcement Only*

Seminar providing intensive study of contemporary advanced research methodologies in education for example, multivariate statistical models, qualitative analysis, latent trait theory, and causal models. Topics and faculty rotate. Students can enroll in this course for two semesters.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM OR PERMISSION OF INSTRUCTOR.

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**EPS670 Introduction to Research Methods**

*3 credits*

*Fall Semester*

The nature of disciplined inquiry in behavioral and social sciences. Includes philosophy of science, quantitative and qualitative research, basic concepts in sampling and measurement, and systematic searches of the research literature. Students required to complete literature search on a topic of their interest and submit a report of their findings.

PREREQUISITE: PREREQUISITE OR COREQUISITE: EPS 553 OR EQUIVALENT.

**EPS671 Group Comparative Research Designs and ANOVA Methods**

*3 credits*

*Fall & Spring Semester*

Group comparative designs, univariate parametric and nonparametric methods and statistical inference will be discussed. Topics include probability, sampling, estimation, ANOVA, ANCOVA. Students will be required to use computer packages (SAS/SPSS).

PREREQUISITE: EPS 670 OR EQUIVALENT OR PERMISSION OF INSTRUCTOR.

**EPS672 Regression Methods**

*3 credits*

*Fall & Spring Semester*

This course will provide: (1) a conceptually-oriented introduction to regression methods and (2) opportunities to learn related data-analytic techniques.

PREREQUISITE: EPS 670 OR EQUIVALENT OR PERMISSION OF INSTRUCTOR.

**EPS673 An Introduction to Structural Equation Modeling for Multivariable Data**

*3 credits*

*Spring Semester*

This course will provide (1) a conceptually-oriented introduction to Structural Equation Modeling for multivariate data and (2) opportunities to learn related data-analytic techniques.

PREREQUISITE: EPS 670; 671 AND 672.

**EPS674 Introduction to Multilevel Modeling**

*3 credits*

*Fall Semester*

This course will provide: (1) a conceptually-oriented introduction to multilevel modeling and (2) opportunities to learn related data-analytic techniques.

PREREQUISITE: EPS 671 & EPS 672 OR PSY631 & PSY632

**EPS675 Qualitative Methods I**

*3 credits*

*Fall Semester*

An overview of the history, nature, characteristics, strategies, and ethics of qualitative research methods. Critical analysis and evaluation of various types of qualitative studies, including design, sampling, processes of data collection and analysis, and reporting results.

PREREQUISITE: EPS 670 AND (671 OR 672) OR EQUIVALENTS OR PERMISSION OF INSTRUCTOR.

**EPS676 Qualitative Methods II: Case Studies and Grounded Theory**

*3 credits*

*Spring Semester*

Types and designs of case studies, development of protocol, field work, data analysis, and report writing. Practical procedures and techniques for conducting grounded theory studies, including data coding and analysis, and reporting of results.

PREREQUISITE: EPS 675 OR EQUIVALENTS.

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**EPS677 Qualitative Methods II: Interviews and Content Analysis**

*3 credits*

*Spring Semester*

Sociological and oral history interview methods, including methodological issues, computer-based coding, decoding, and interpreting data. Visual and text based content analysis, scoring schemas, and inter-rated reliability are also covered.

PREREQUISITE: EPS 675 OR EQUIVALENT.

**EPS678 Applied Multivariate Statistics**

*3 credits*

*Spring Semester*

The aim of this course is to provide a solid foundation in the basic concepts of multivariate statistics, and its application to practical research questions. This course extends the content of EPS 671 (ANOVA methods) and EPS 672 (regression methods) to cover methods used when there are multiple dependent variables to be modeled simultaneously. This course focuses on the traditional multivariate methods (as opposed to the contemporary models of structure equation modeling) that see wide use in the behavioral sciences. The general topics covered in the course include, but are not limited to: introductory matrix algebra, multivariate analysis of variance (MANOVA), factorial MANOVA, discriminant function analysis, and exploratory factor analysis. In all cases, this course is intended to provide a solid conceptual background of these topics, as well as a thorough description/practice of the application of these topics to real data scenarios.

PREREQUISITE: EPS 671, EPS 672

**EPS679 Research Practicum**

*1- 6 credits*

*Fall & Spring Semester*

Hands on experience in various aspects and processes in research.

PREREQUISITE: DOCTORAL STANDING OR PERMISSION OF INSTRUCTOR.

**EPS680 Cultural Diversity and Mental Health**

*3 credits*

*Fall Semester*

Advanced training in conceptualizing the individual within cultural and sociopolitical contexts with purpose of creating more reflective and intentional clinicians. Includes learning skills for improving the lives of clients in these areas.

PREREQUISITE: ADMISSION TO THE COUNSELING PSYCHOLOGY DOCTORAL PROGRAM OR PERMISSION OF THE INSTRUCTOR.

**EPS685 Dissertation Seminar**

*3 credits*

*Offered By Announcement Only*

The development and analysis of dissertation proposals will be required. Detailed coverage of the research process, proposal elements, dissertation writing and all aspects of doctoral research will be emphasized. Extensive feedback on research ideas and writing is involved.

PREREQUISITE: COMPLETION OF RESEARCH COMPETENCIES AND/OR MAJOR PORTION OF ALL COURSES IN DOCTORAL PROGRAM.

**EPS687 Internship in College Teaching**

*3 credits*

*Fall & Spring Semester*

A program in observation and supervised teaching in the community junior or liberal arts college. The student spends 15-20 hours per week. Included is a seminar held with the college supervisor which meets several times during the semester.

PREREQUISITE: APPROVAL OF COMMITTEE ON INTERNSHIP.

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**EPS688 Practicum: Administration of Higher Education**

*1- 6 credits* *Fall & Spring Semester & First & Second Summer Session*

This course is designed to provide students with an opportunity to develop professional competencies while they apply theory to practice. Opportunities can be pursued in enrollment management or student affairs related offices either on campus or at other higher education institutions. Students will contract for the type of experience desired and a formal research paper and presentation will culminate this activity.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**EPS698 Advanced Individual Study**

*1- 3 credits* *Fall & Spring Semester & First & Second Summer Session*

Individual work on a special project under faculty guidance.

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

**EPS699 Advanced Individual Study**

*1- 3 credits* *Fall & Spring Semester & First & Second Summer Session*

Individual work on a special project under faculty guidance.

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

**EPS702 Advanced Practicum in Counseling**

*1- 6 credits* *Fall & Spring Semester*

Group supervision meetings in which students present case conceptualizations, review information from professional sources regarding their clients, and discuss the supervisory and organizational dynamics of their outplacements settings.

PREREQUISITE: EPS618

**EPS703 Internship in Counseling Psychology**

*1- 6 credits* *Fall & Spring Semester*

Supervised internship in Counseling Psychology in an approved facility.

PREREQUISITE: PERMISSION OF PROGRAM FACULTY.

**EPS710 Master's Thesis**

*1- 6 credits* *Fall & Spring Semester & First & Second Summer Session*

The student working on his/her master's thesis enrolls for credit, in most departments not to exceed six, as determined by his/her advisor. Credit is not awarded until the thesis has been accepted.

**EPS720 Research in Residence**

*0 credit* *Fall & Spring Semester & First & Second Summer Session*

Used to establish research in residence for the thesis for the master's degree after the student has enrolled for the permissible cumulative total in EPS 710 (usually six credits). Credit not granted. May be regarded as full time residence.

**EPS725 Continuous Registration--Master's Study**

*0 credit* *Fall & Spring Semester & First & Second Summer Session*

To establish residence for non-thesis master's students who are preparing for major examinations. Credit not granted. Regarded as full time residence.

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**EPS730 Doctor of Philosophy Dissertation**

*1-12 credits* *Fall & Spring Semester & First & Second Summer Session*

Required of all candidates for the Ph.D. The student will enroll for credit as determined by his/her advisor but not for less than a total of 24. Not more than 12 hours of EPS 730 may be taken in a regular semester, nor more than six in a summer session. Where a student has passed his/her (a) qualifying examinations, and (b) is engaged in an assistantship, he/she may still take the maximum allowable credit stated above.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM.

**EPS735 Doctor of Education Dissertation**

*1-12 credits* *Fall & Spring Semester & First & Second Summer Session*

Required of all candidates for the Ed.D. The student enrolls for credit as determined by his/her advisor. Credit is not awarded until the doctoral project has been accepted. Total enrollment may not exceed 12 credits.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM.

**EPS750 Research in Residence**

*0 credit* *Fall & Spring Semester & First & Second Summer Session*

Used to establish research in residence for the Ph.D. and Ed.D., after the student has been enrolled for the permissible cumulative total in appropriate doctoral research. Credit not granted. May be regarded as full-time residence as determined by the Dean of the Graduate School.

**EXERCISE & SPORT SCIENCES**

**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.

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**EXERCISE & SPORT SCIENCES**

**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.

**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.

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**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.

**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.

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**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.

**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.

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**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.

**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.

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**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.

**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.

**ESS602 Athletics in the United States**

*3 credits*

*Fall Semester*

An assessment of athletics in the United States. Focus on historical perspectives, contemporary issues, interface with international athletics, and future trends.

PREREQUISITE: BACKGROUND AND EXPERIENCE IN ATHLETICS OR PERMISSION OF INSTRUCTOR.

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**ESS603 Contemporary Issues in Exercise and Sport Sciences**

3 credits

Spring Semester

Problem identification, investigation, analysis, and problem solving approaches in Exercise and Sport Sciences.

**ESS604 Recreation in the United States**

3 credits

Offered By Announcement Only

An assessment of recreation and leisure in the United States. Focus on past, present, and future trends, problems, and issues.

PREREQUISITE: BACKGROUND AND EXPERIENCE IN RECREATION OR PERMISSION OF INSTRUCTOR.

**ESS612 Applied Sport Psychophysiology**

3 credits

Fall Semester

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

PREREQUISITE: ESS 541

**ESS640 Seminar in Exercise Science**

3 credits

Offered By Announcement Only

Contemporary topics and relevant issues in exercise science.

PREREQUISITE: BACKGROUND AND EXPERIENCE IN EXERCISE SCIENCE OR PERMISSION.

**ESS641 Aging: Physiological Changes and Their Implications of Training**

3 credits

Spring Semester

The physiological changes that occur due to aging and their impact on fall prevention, independence and the application of prophylactic exercise prescriptions.

PREREQUISITE: ESS 520 OR PERMISSION OF THE INSTRUCTOR.

**ESS642 Cardiac Rehabilitation: Phases I-IV**

3 credits

Spring Semester

This course represents an in-depth review and evaluation of the cardiac patient according to sound physiological procedures. Students must understand the methods of stress testing and how to use stress test results to implement a cardiac rehabilitation program. Phase I through Phase IV review of Cardiac Rehabilitation is fully examined.

PREREQUISITE: ESS 521.

**ESS643 Laboratory Experiences in Cardiac Rehabilitation**

3 credits

Spring Semester

This class provides hands-on clinical experiences in preparation of patient for testing, assessment of pre-existing medical conditions and risk factors as well as appropriate procedures for stress testing. Student will, in addition, have the opportunity to view Thallium stress tests, echocardiography and cardiac surgical procedures such as angioplasty and bypass surgery.

PREREQUISITE: ESS 521.

**ESS644 Interpretation of the ECG**

3 credits

First Summer Session

This class will provide information of the electrophysiology of the heart, medicines used to improve heart function, and critical examination of waveform analyses in interpreting the electrocardiogram. Prerequisite: ESS 642 or permission of the instructor.

PREREQUISITE: ESS 642 OR PERMISSION OF THE INSTRUCTOR.

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**ESS646 Research Methods in Exercise and Sport Sciences**

*3 credits*

*Fall Semester*

**ESS647 Analytic Methods in Exercise and Sport Sciences**

*3 credits*

*Spring Semester*

Methods of analyzing research data in exercise and sport sciences.

PREREQUISITE: ESS 646 OR PERMISSION.

**ESS681 Issues Specific to Women's Health**

*3 credits*

*Spring Semester*

This course focuses upon clinical health issues relevant to women. Students will acquire a body of knowledge concerning the specific biological and physiological changes women experience from birth to maturity, and from the pre- to postmenopausal state. Women will learn significant issues related to women's health and be able to make more educated decisions regarding their health and treatment options.

PREREQUISITE: ESS 521 OR PERMISSION OF THE INSTRUCTOR

**ESS682 Psychosocial Issues in Women's Health**

*3 credits*

*Spring Semester*

This course covers a broad perspective of women and their self-esteem, their femininity, and their role in family household. Attention will be paid to the historical, cultural, and anthropological development of women and their role in society. The influence of gender will explore several areas which include a) pregnancy, b) menopause, c) menstrual cycle, d) stress and career vs. family, e) depression, and f) body image.

**ESS683 Sports Medicine for the Female Athlete**

*3 credits*

*Fall Semester*

This course focuses upon the physiological effects of exercise on the female athlete as it relates to her performance and health. Physiological differences between male and females will be examined as it impacts the woman's performance capabilities and potential. Gender specific problems regarding the exercising female will be explored.

PREREQUISITE: ESS 521

**ESS684 Obesity: Prevention and Treatment**

*3 credits*

*Fall Semester*

This course is designed to evaluate dieting, rebound effect, set point theory, brown fat, and adaptive thermogenesis, as they relate to the etiology of obesity. The course will cover a step by step approach in the recognition, and management of the overweight patient. This includes determination of basal metabolic rate, thyroid function, percent body fat, quantification of adipocyte number and mass, and research on exercise as a therapeutic intervention. Students will learn to design exercise programs for hypothetical obese patients and the impact of both diet and exercise on long-term weight management.

PREREQUISITE: ESS 521 AND 577 OR PERMISSION OF INSTRUCTOR

**ESS693 Research Colloquium.**

*1- 3 credits*

*Fall & Spring Semester*

This course presents graduate students with the theoretical and practical tools necessary for presenting their scientific research in an organized, logical, and analytical manner.

PREREQUISITE: ESS 646.

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**ESS694 Advanced Individual Study**

*1- 3 credits* *Fall & Spring Semester & First & Second Summer Session*  
The Application for Admission to Individual Study Form will be required.  
PREREQUISITE: PERMISSION OF DEPARTMENT CHAIRMAN AND FACULTY MEMBER INVOLVED.

**ESS696 Graduate/Clinical Field Experience in Exercise and Sport Sciences**

*1- 9 credits* *Fall & Spring Semester & First & Second Summer Session*  
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.  
PREREQUISITE: PERMISSION OF CHAIRPERSON.

**ESS697 Graduate/Clinical Field Experience in Exercise and Sport Sciences**

*1- 3 credits* *Fall & Spring Semester & First & Second Summer Session*  
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.  
PREREQUISITE: PERMISSION OF CHAIRPERSON.

**ESS698 Field Experience in Sport Administration**

*1- 3 credits* *First & Second Summer Session*  
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.  
PREREQUISITE: NONE

**ESS699 Special Project in Exercise and Sport Sciences**

*1- 3 credits* *Fall & Spring Semester & First & Second Summer Session*  
This course represents the capstone course in a students field and should represent a culmination of all information learned in class.

**ESS710 Master's Thesis**

*1- 6 credits* *Fall & Spring Semester & First & Second Summer Session*  
The student working on his/her master's thesis enrolls for credit, in most departments not to exceed six, as determined by his/her advisor. Credit is not awarded until the thesis has been accepted.

**ESS720 Research in Residence**

*0 credit* *Fall & Spring Semester*  
Used to establish research in residence for the thesis for the master's degree after the student has enrolled for the permissible cumulative total in ESS 710 (usually six credits). Credit not granted. May be regarded as full time residence.

**ESS725 Continuous Registration--Master's Study**

*0 credit* *Fall & Spring Semester & First & Second Summer Session*  
To establish residence for non-thesis master's students who are preparing for major examinations. Credit not granted. Regarded as full time residence.

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**ESS730 Doctor of Philosophy Dissertation**

*1-12 credits* *Fall & Spring Semester & First & Second Summer Session*

Required of all candidates for the Ph.D. The student will enroll for credit as determined by his/her advisor but not for less than a total of 12. Not more than 12 hours of ESS 730 may be taken in a regular semester, nor more than six in a summer session. Where a student has passed his/her (a) qualifying examinations, and (b) is engaged in an assistantship, he/she may still take the maximum allowable credit stated above.

PREREQUISITE: ADMISSION TO THE DOCTORAL PROGRAM.

**ESS750 Research in Residence**

*0 credit* *Fall & Spring Semester & First & Second Summer Session*

Used to establish research in residence for the Ph.D. student, after the student has been enrolled for the permissible cumulative total in appropriate doctoral research. Credit not granted. May be regarded as full-time residence as determined by the Dean of the Graduate School.

**TEACHING AND LEARNING**

**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.

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**TEACHING AND LEARNING**

**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.

**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

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**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.

**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.

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**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.

**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.

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**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.

**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.

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**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.

**TAL601 Instructional Leadership**

*3 credits*

*Offered By Announcement Only*

An examination of the components of effective supervision of instruction. Leadership theories which apply to educational settings; legal rights and responsibilities of students, teachers and administrators will be covered. as well as the examination of various models of teaching.

**TAL602 Effective Teaching**

*3 credits*

*Offered By Announcement Only*

A study of the theory and practice of effective teaching grades K-12. Attention is given to those teaching behaviors supported by research, and emphasis placed on the development of effective teaching behaviors.

PREREQUISITE: GRADUATE STANDING.

**TAL603 Teacher in American Society**

*3 credits*

*Spring Semester*

An historical, philosophical, and sociological analysis of the teaching profession in American society. The role and status of teachers in American culture will be discussed. Contemporary issues such as the union movement, status assignment, rewards and incentives, and the role of the teacher as an instrument in the definition of the culture will also be covered.

**TAL605 Seminar in Human Resource Development**

*3-12 credits*

*Offered By Announcement Only*

Contemporary topics in human resource development and technology. Rotating topics and faculty. Open only to advanced graduate students in human resource development programs pursuing the masters, specialist, or doctoral degrees. Course may be repeated for a total of twelve credits. Subtitles describing the topics to be offered will be shown in parentheses in the printed schedule, following the title.

PREREQUISITE: ADMISSION TO MASTERS, SPECIALISTS, OR DOCTORAL STUDY OR PERMISSION OF INSTRUCTOR.

**TAL609 Practicum in Reading**

*3 credits*

*Fall & Spring Semester*

Practicum in an educational setting. Participants will apply effective practices in teaching Reading.

PREREQUISITE: TAL 550, 552, 651, AND 652.

**TAL610 Early Childhood Curriculum Development**

*3 credits*

*First Summer Session*

Development of curriculum for children from birth to eight years of age. Emphasis on application of research findings. 20 hours of field experience required.

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**TAL611 Issues and Trends in Early Childhood Education**

*3 credits*

*Spring Semester*

Current practices in early childhood education in relation to historical perspectives and contemporary research. Analysis of issues and problems in early childhood education.

**TAL614 Typical and Atypical Child Development**

*3 credits*

*Spring Semester*

Theories and research in the development of children from conception through eight years of age. Factors which influence development and the relationship of typical development to patterns of delayed and atypical development. Writing intensive course.

**TAL615 Evaluation and Assessment in Infant and Early Childhood Special**

*3 credits*

*Fall Semester*

Students will become familiar with a variety of formal and informal screening, evaluation, assessment instruments, and procedures currently in use with children birth to eight. They will learn criteria for selecting and using developmentally and culturally appropriate instruments and become familiar with the multi-, inter-, and trans-disciplinary team approaches. Students will write formal reports and develop an IEP and an IFSP. May require field experience.

PREREQUISITE: TAL 614, OR PERMISSION OF INSTRUCTOR.

**TAL616 Intervention Strategies in Infant and Early Childhood Special Education**

*3 credits*

*Spring Semester*

The focus of this course will be the implementation of IEPs and IFSPs through the use of developmentally appropriate curriculum, methods, and intervention strategies for infants, toddlers, and young children with special needs. This will include implementation and adaptation of existing curriculum and materials for young children to meet the special needs of this population. May require field experience. Writing Intensive course.

PREREQUISITE: TAL 615, OR PERMISSION OF INSTRUCTOR.

**TAL620 Reading in the Elementary School**

*3 credits*

*First Summer Session*

Extending competencies in teaching reading, including exceptional children in the regular classroom, with emphasis on applying findings from research in reading to classroom practices. 20 hours of field experience required for all students who are not currently teaching.

**TAL621 Language Arts and Culture in the Classroom**

*3 credits*

*Spring Semester*

Extending competencies in the language arts including linguistic and cultural diversity and children with disabilities in elementary classrooms. Emphasis on research applications. 20 hours of field experience required for all students who are not currently teaching. Writing intensive course.

**TAL622 Mathematics in the Elementary School**

*3 credits*

*Spring Semester*

Content, methods, and research appropriate for teaching mathematics in the elementary school, including exceptional children in the regular classroom. Content is defined as a pre-algebra mathematics. 20 hours of field experience required for all students who are not currently teaching. Writing intensive course.

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**TAL623 Science in the Elementary School**

*3 credits*

*First Summer Session*

Extending competencies of elementary school teachers in teaching science to children, including exceptional children in the regular classroom. Development of science programs based on research which has classroom applications. 20 hours of field experience required for all students who are not currently teaching.

**TAL624 Social Studies in the Elementary School**

*3 credits*

*Fall Semester*

Extending competencies in teaching social studies to children, including exceptional children in the regular classroom, with an emphasis on research applications. 20 hours of field experience required for all students who are not currently teaching.

**TAL625 Literature for Children and Adolescents.**

*3 credits*

*Fall Semester*

Study of literature for children and adolescents emphasizing multicultural literature and use of literature across the curriculum. Twenty hours of field experience required.

PREREQUISITE: GRADUATE STANDING.

**TAL626 Instructing Students Who Have Literacy Challenges**

*3 credits*

*Fall & Spring Semester*

Administration and interpretation of instructional assessments with instructional strategies and materials based upon scientifically based reading research for the prevention and remediation of reading difficulties.

PREREQUISITE: TAL 550 AND 552 OR 620 AND 621.

**TAL628 Seminar in Elementary Education**

*3-12 credits*

*Offered By Announcement Only*

Study in special interest areas in elementary education. May be taken for up to 12 credits.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**TAL630 Learning Disabilities**

*3 credits*

*Fall Semester*

A comprehensive study of theoretical issues, research, diagnosis, planning, and organization of instruction for children with learning problems. Curriculum adjustment, development of programs of differential instruction, specialized methods of evaluation, and team relationships will be emphasized. This is a writing intensive course.

PREREQUISITE: TAL 531 OR EQUIVALENT.

**TAL631 Theory and Instructional Practices for Exceptional Student Education**

*3 credits*

*Spring Semester*

Theoretical issues, research, diagnosis, planning, and organization of instruction for exceptional students. Programs of differential instruction, ongoing assessment, and team relationships will be covered.

PREREQUISITE: TAL 531 OR EQUIVALENT, OR PERMISSION OF INSTRUCTOR.

**TAL632 Classroom and Behavior Management**

*3 credits*

*Spring Semester*

An examination of the principles of various theoretical perspectives of classroom management and discipline. Applications to the management of behavior problems of children and adolescents. Contemporary research analyzed and discussed. Writing intensive course.

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**TAL633 Theories and Models of Teaching Students with Behavior/Emotional Disorders**

*3 credits*

*Spring Semester*

Characteristics, issues, research, diagnosis, planning, and organization of instruction for children with behavior disorders. Curriculum design evaluation methods and instructional strategies are also included.

PREREQUISITE: TAL 531 OR EQUIVALENT.

**TAL634 Prescriptive Teaching of Exceptional Students**

*3 credits*

*Fall Semester*

Techniques for individualization of instruction for exceptional students, including educational prescription, and curriculum adaptation.

PREREQUISITE: TAL 630 OR 631, 633 OR PERMISSION OF INSTRUCTOR.

**TAL635 Seminar in Special Education**

*3-12 credits*

*Offered By Announcement Only*

Study in special interest areas in special education. May be taken for up to 12 credits.

PREREQUISITE: PERMISSION OF INSTRUCTOR.

**TAL637 Assessment in Exceptional Student Education**

*3 credits*

*Fall Semester*

Administration and interpretation of assessment tools used to assess and evaluate reading and learning difficulties; includes a survey of instructional strategies and materials for the prevention and remediation of reading difficulties based on the results of the assessments.

**TAL638 Communication and Consultation Skills in Exceptional Student Education**

*3 credits*

*Spring Semester*

A course for professionals who will be teaching, counseling, or interacting directly or indirectly with exceptional students. An overview of community agencies, organizations, and services, counseling and consulting models, skills associated with various educator roles; and techniques for interacting with parents.

**TAL641 Principles of Curriculum Development and Classroom Management for TESOL**

*3 credits*

*Spring Semester*

Components of curriculum and instructional management in ESOL classrooms. Pupil/teacher interaction, curriculum organization, student assessment and evaluation, materials development and adoption, utilization of resources, and classroom organization will be covered.

**TAL642 Equity in STEM Education.**

*3 credits*

*Offered By Announcement Only*

Issues of unequal student achievement, course taking, degree-seeking, and careers that rely on mathematics, science, and technology. Focus is on social-demographic groups defined along lines of race, ethnicity, social class, gender, language, and their interactions. Historical and social antecedents, current day policies and practices, extant research consequences and future trends.

PREREQUISITE: GRADUATE STUDENT STATUS.

**TAL643 Introduction to Theories and Practice of Teaching English to Speakers of Other Languages**

*3 credits*

*First Summer Session*

Introduction to theories and practice of ESOL.

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**TAL645 Language Assessment**

*3 credits*

*Fall Semester*

Nature and methodologies of language assessment within a framework of psychometric and linguistic criteria.

PREREQUISITE: TAL 643.

**TAL646 Principles of First and Second Language Acquisition**

*3 credits*

*Spring Semester*

Theories and principles of language acquisition. Phenomena of language interference related to linguistic and cultural criteria.

PREREQUISITE: TAL 643 AND/OR 640.

**TAL647 Understanding Culture in the Classroom**

*3 credits*

*Spring Semester*

This course explores the conflicts and the strategies for resolution between the patterns of culture in the classroom and the patterns of culture that school children bring to the classroom - patterns which are learned in their families and communities.

**TAL648 Educational Issues in Immigration**

*3 credits*

*Spring Semester*

An historical, philosophical, and sociological analysis of issues involving education and immigration, cultural identity, diversity, and congruity. A topical approach is emphasized.

**TAL651 Assessment of Reading and Related Learning Disabilities**

*3 credits*

*Fall Semester*

Theories and procedures for screening, diagnosis, and progress-monitoring of reading and related learning disabilities. Includes instruction and supervised clinical experiences in administration and interpretation of assessments with an emphasis on prevention, identification, and remediation of reading and related learning disabilities.

PREREQUISITE: TAL 550, 552

**TAL652 Intervention for Reading and Related Learning Disabilities**

*3 credits*

*Spring Semester*

Theories and procedures for screening, diagnosis, and progress-monitoring of reading and related learning disabilities. Includes instruction and supervised clinical experiences in administration and interpretation of assessments with an emphasis on prevention, identification, and intervention of reading and related learning disabilities.

PREREQUISITE: TAL 651 (OR COULD BE TAKEN CONCURRENTLY).

**TAL653 Applied Linguistics in Education**

*3 credits*

*Fall Semester*

Survey of phonology, morphology, and syntax of language system, especially as they apply to learning disabilities, common language disorders, programs in preschool, reading, and bilingual education.

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**TAL655 Seminar in Reading/Learning Disabilities**

*3-12 credits*

*Offered By Announcement Only*

Contemporary topics in reading and learning disabilities. Rotating topics and faculty. Open only to advanced graduate students in reading and learning disabilities pursuing specialist or doctoral degrees. Specialist students enroll for a total of six hours, and doctoral students for a total of 12 hours. Course may be repeated for a total of 12 credits. Subtitles describing the topics to be offered will be shown in parentheses in the printed schedule, following the title.

PREREQUISITE: ADMISSION TO SPECIALIST OR DOCTORAL STUDY OR PERMISSION OF INSTRUCTOR.

**TAL656 Seminar in Reading**

*3 credits*

*Fall & Spring Semester*

Seminar providing intensive study of contemporary topics in reading. Open to advanced graduate students in reading.

PREREQUISITE: TAL 550/552

**TAL660 Theories and Analyses of Instruction**

*3 credits*

*Offered By Announcement Only*

A survey of current instructional theories with; a consideration of the relationship to what is known about learning and a selection, examination, and discussion of the techniques derived from them.

PREREQUISITE: EPS 605 (OR EQUIVALENT) OR PERMISSION OF INSTRUCTOR.

**TAL662 Issues and Trends in Multicultural Education**

*3- 6 credits*

*Offered By Announcement Only*

The study and critical examination of the theory and practice of multicultural education. Development of a personal theory of effective education for pluralism is included.

PREREQUISITE: DOCTORAL STATUS.

**TAL664 Curriculum and Computing**

*3 credits*

*Offered By Announcement Only*

Curriculum history and theory in the context of educational technologies from the spoken work, to text and textbook, and finally computing.

PREREQUISITE: DOCTORAL STATUS.

**TAL665 Seminar in Special Education Research**

*3 credits*

*Fall Semester*

Critical analysis of empirical research studies in selected areas of special education research, focusing on research designs, data analysis methods, and interpretation of findings.

**TAL667 Seminar in Current Special Education Issues**

*3 credits*

*Fall Semester*

Critical examination of selected current issues in special education from historical, social, policy, practice and research perspectives.

**TAL670 Associate Teaching in the Elementary School (Semester-Long)**

*3- 6 credits*

*Fall & Spring Semester*

A comprehensive 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: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

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**TAL671 Associate Teaching in the Elementary School for K-12 Areas**

*3- 6 credits*

*Fall & Spring Semester*

A comprehensive program of observations and supervised teaching in the elementary learning disabilities classroom. The student spends full time in an elementary learning disabilities classroom participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**TAL672 Associate Teaching in the Secondary School**

*6 credits*

*Fall & Spring Semester*

A comprehensive program in observation and supervised teaching in a school/ center for children ages three to eight years. The student spends on hundred hours in the school/center, participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE EARLY CHILDHOOD COMMITTEE.

**TAL673 Associate Teaching in the secondary School for K-12 areas**

*3- 6 credits*

*Fall & Spring Semester*

A comprehensive program of observations and supervised teaching in the secondary learning disabilities classroom. The student spends full time in a secondary learning disabilities classroom participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**TAL674 Internship in the Elementary School**

*3- 6 credits*

*Offered By Announcement Only*

A comprehensive program of supervised teaching in a K-6 classroom in the elementary school. The student spends a full semester employed as a full-time teacher while under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

**TAL675 Internship in the Secondary School**

*3- 6 credits*

*Offered By Announcement Only*

A comprehensive program of supervised teaching in the secondary school. The student spends two full semesters employed as a full-time teacher while under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**TAL676 Internship in Special Education Settings**

*3- 6 credits*

*Offered By Announcement Only*

A comprehensive program of supervised teaching in special education settings. The student spends two full semesters employed as a full-time teacher while under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**TAL677 Practicum/Internship with Infants and Toddlers with Disabilities (0-3 yrs.)**

*1- 6 credits*

*Offered By Announcement Only*

A comprehensive program in observations and supervised teaching in a school/center for infants and toddlers with disabilities (0-3 yrs.). The student spends full time in the school/center participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

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**TAL678 Practicum/Internship with Children with Disabilities (3-5 yrs.)**

*1- 6 credits*

*Offered By Announcement Only*

A comprehensive program in observation and supervised teaching in a school/center for children with disabilities (3-5 yrs.). The student spends full time in the school/center participating in all activities of the teacher under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

**TAL679 Specialized Placements in Exceptional Student Education**

*1- 6 credits*

*Offered By Announcement Only*

An alternative internship placement with specialists in non-classroom based and/or non-education based exceptional student education settings. The student spends full time in the program participating in all activities of the specialist under the guidance of program and university personnel.

PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

**TAL680 Working with Families of Young Children with Disabilities: Strategies & Med. Issues**

*3 credits*

*Fall Semester*

This course will address issues related to working with families of young children with special educational and health needs. This will include strategies for effective communication and collaboration with all members of the interdisciplinary team. This is a writing intensive course.

**TAL681 Methods for Communications and Language in Young Children with Disabilities**

*3 credits*

*Spring Semester*

This course will focus on language theories, models, and methods for birth-eight year olds. The course will present an overview of normal development in communication and discuss conditions that might impede progress as well as signs that would suggest a problem is present. This course may require field experience.

**TAL682 Adaptive Technology and Computers in Early Childhood**

*1 credits*

*First Summer Session*

Applications of adaptive technology and computers in the education of young children with special needs.

**TAL689 Internship in the Elementary School for K-12 Areas**

*3 credits*

*Offered By Announcement Only*

A comprehensive program of supervised teaching in the elementary school. The student spends one full semester employed as a full-time teacher while under the guidance of school and university personnel.

PREREQUISITE: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCE.

**TAL690 Advance Topics in Education**

*1- 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.

**TAL693 Advanced 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 form will be required.

PREREQUISITE: PERMISSION OF THE DIRECTING FACULTY MEMBER AND DEPARTMENT CHAIRMAN.

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**TAL694 Advanced 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 form will be required.  
PREREQUISITE: PERMISSION OF THE DIRECTING FACULTY MEMBER AND DEPARTMENT CHAIRMAN.

**TAL695 Doctoral Project/Dissertation Seminar**

*2 credits* *Offered By Announcement Only*  
Required of all students admitted to advanced graduate standing until completion of doctoral program. Discussion and analysis of student projects and dissertations. New trends in the areas of research and educational development in Elementary Education considered.  
PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM.

**TAL696 Practicum/Internship: Elementary Exceptional Student Education Classroom**

*1- 6 credits* *Fall & Spring Semester*  
A comprehensive program of observations and supervised teaching in an elementary exceptional student education classroom. The student spends full time in the classroom participating in all activities of the teacher under the guidance of school and university personnel.  
PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

**TAL697 Practicum/Internship: Secondary Exceptional Student Education Classroom**

*1- 6 credits* *Fall & Spring Semester*  
A comprehensive program of observations and supervised teaching in a secondary exceptional student education classroom. The student spends full time in the classroom participating in all activities of the teacher under the guidance of school and university personnel.  
PREREQUISITE: APPROVAL OF THE OFFICE OF STUDENT SERVICES.

**TAL710 Pre-Candidacy Thesis Research**

*1-12 credits* *Offered By Announcement Only*  
Masters-degree and Ed.S. students enrolled for credit as determined by advisor. Credit awarded when thesis is accepted.  
PREREQUISITE: ADMISSION TO CANDIDACY IN EITHER MASTER'S DEGREE OR ED.S. PROGRAM.  
REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

**TAL715 Post-Candidacy Thesis Research**

*1-12 credits* *Offered By Announcement Only*  
Masters-degree and Ed.S. students enrolled for credit as determined by advisor. Credit awarded when thesis is accepted.  
PREREQUISITE: ADMISSION TO CANDIDACY IN EITHER MASTER'S DEGREE OR ED.S. PROGRAM.  
REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

**TAL720 Research in Residence.**

*0 credit* *Offered By Announcement Only*  
Masters-degree and Ed.S. students enrolled for credit as determined by advisor. Credit awarded when thesis is accepted.  
PREREQUISITE: ADMISSION TO CANDIDACY IN EITHER MASTER'S DEGREE OR ED.S. PROGRAM.  
FULFILLMENT OF OTHER RESEARCH REQUIREMENTS. REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

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

**TAL721 Theory and Research in Reading**

*3 credits*

*Fall & Spring Semester*

Seminar that focuses on reading, critiquing, and synthesizing the research literature on reading theory and reading instruction to formulate testable hypotheses and explanations.

PREREQUISITE: DOCTORAL STANDING

**TAL722 Theory and Research in Writing**

*3 credits*

*Fall & Spring Semester*

This course explores research and theory that informs an understanding of the writing process, the development of writing abilities, and writing instruction and assessment.

PREREQUISITE: ADMISSION TO GRADUATE STUDIES OR CONSENT OF INSTRUCTOR.

**TAL723 Language, Literacy and Cultural Policy**

*3 credits*

*Fall & Spring Semester*

This is a course in Literacy, Language and Cultural Policy. We will examine literacy in its broadest terms, considering not only traditional text literacy, but alternate literacies such as oral literacy, signage, pictographic writing, graffiti, rebuses and hieroglyphics. We will address the transformation of traditional textual forms of literacy through the computer--specifically looking at issues such as the augmentation of intelligence through machine-mediated processes, and the cultural significance of simulation, hyperreality and hypertext. The course will then proceed to an analysis of language policy in light of both traditional and new literacies. A strong emphasis will be placed on historical and semiotic analysis. Students will co-author, with the instructor, a monograph dealing with Alternative Literacies.

PREREQUISITE: DOCTORAL STATUS

**TAL724 Applied Linguistics**

*3 credits*

*Fall Semester*

The study of phonology, morphology, syntax, semantics of language systems, and pragmatics of oral and written discourse with a focus on the understanding of linguistic theories and concepts and their application to second language/ dialect acquisition.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM OR INSTRUCTOR'S APPROVAL.

**TAL725 Theory and Research in Writing**

*3 credits*

*Offered By Announcement Only*

This course explores research and theory that informs an understanding of the writing process, the development of writing abilities, and writing instruction and assessment.

PREREQUISITE: ADMISSION TO GRADUATE STUDIES OR CONSENT OF INSTRUCTOR

**TAL729 Topics in Language and Literacy Learning**

*1- 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.

PREREQUISITE: PERMISSION OF INSTRUCTOR AND DOCTORAL STANDING

**TAL730 Pre-Candidacy to Dissertation Research.**

*1-12 credits*

*Fall & Spring Semester*

Doctoral students enrolled for credit as determined by advisor. Credit is awarded when dissertation is accepted.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM. REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

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

**TAL735 Doctor of Education Dissertation**

*1-12 credits*

*Offered By Announcement Only*

Required of all candidates for the Ed.D. The student enrolls for credit as determined by his/her advisor. Credit is not awarded until the doctoral project has been accepted. Total enrollment may not exceed 12 credits.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM.

**TAL740 Post-Candidacy Dissertation Research.**

*1-12 credits*

*Fall & Spring Semester*

Doctoral students enrolled for credit as determined by advisor. Credit is awarded when dissertation is accepted.

PREREQUISITE: ADMISSION TO CANDIDACY IN DOCTORAL PROGRAM. REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

**TAL741 Teaching and Teacher Education in Mathematics and Science**

*3 credits*

*Spring Semester*

More advanced and specialized topics in research on the teaching and learning of mathematics and science, including the development of teachers across their careers, professional development, design experiments, learning in and out of school.

PREREQUISITE: ADMISSION TO PH.D. PROGRAM OR INSTRUCTOR'S APPROVAL.

**TAL742 Research on Learning in Mathematics and Science**

*3 credits*

*Fall Semester*

Provides an overview of the historical roots and current state of the learning sciences, as they apply to the study of learning in science and mathematics. Organized around reading, discussion and synthesis of research. Pre-requisite: Admission to Ph.D. program or instructor's approval.

PREREQUISITE: ACCEPTANCE TO PH.D. PROGRAM OR APPROVAL OF INSTRUCTOR.

**TAL743 Mathematics and Science Curriculum**

*3 credits*

*Spring Semester*

Study of mathematics and science curricula and the competing forces that shape them, including standards documents, state and national policy, conceptions of the disciplines, modern and postmodern analyses of curriculum theory. Pre-requisite: Admission to Ph.D. program or instructor's approval.

PREREQUISITE: ADMISSION TO PH.D. PROGRAM OR INSTRUCTOR'S APPROVAL.

**TAL744 Assessment in Mathematics and Science**

*3 credits*

*Fall Semester*

Overview of the theoretical and research frameworks for student assessment in mathematics and science. Classroom-based assessment, testing for high stakes and other purposes, national and international comparisons in mathematics and science.

PREREQUISITE: ADMISSION TO PH.D. PROGRAM OR INSTRUCTORS APPROVAL.

**TAL745 Mathematics and Science Education Research Practicum**

*3 credits*

*Fall Semester*

Defining an empirical or theoretical research issue, arguing for its importance; framing the study based on related research; designing, implementing and documenting appropriate research methods; reporting and interpreting the results; writing and submitting a manuscript - in mathematics and/ or science education.

PREREQUISITE: DOCTORAL STUDENT IN MATHEMATICS AND SCIENCE EDUCATION, COMPLETION OF AT LEAST 3 RESEARCH METHODS COURSES, COMPLETION OF AT LEAST 2 MATH/SCIENCE EDUCATION CORE DOCTORAL COURSES, OR CONSENT OF INSTRUCTOR.

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**TEACHING AND LEARNING**

**TAL749 Topics in Math and Science Education**

*1- 3 credits*

*Spring Semester*

Review of emerging policy, practice, empirical research and scholarly writing on important educational issues for which format 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 topics.

PREREQUISITE: PERMISSION OF INSTRUCTOR AND DOCTORAL STANDING.

**TAL750 Research in Residence**

*0 credit*

*Fall & Spring Semester & First & Second Summer Session*

Doctoral students enrolled for credit as determined by advisor. Credit awarded when dissertation is accepted.

PREREQUISITE: ADMISSION TO CANDIDACY IN DOCTORAL PROGRAM. FULFILLMENT OF OTHER RESEARCH REQUIREMENTS. REQUIRES APPROVAL OF ADVISOR AND DEPARTMENT CHAIR.

**TAL751 Theoretical and Psychological Bases of Teacher Education**

*3 credits*

*Offered By Announcement Only*

The philosophical, theoretical, and psychological bases of teacher education pertaining to the student's area of concentration (TESOL, Special Education or Reading). Subtitles describing the topics to be covered will be provided for individual course selections.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM. -

**TAL752 Issues and Trends in Teacher Education**

*3 credits*

*Offered By Announcement Only*

Study of contemporary topics in teacher education. Consideration is given to the philosophical, psychological, and sociological bases of teacher education. Analytic review of research on teacher education curricula, program innovations, policy issues, and their effects will also be covered.

PREREQUISITE: DOCTORAL STUDENT STANDING OR CONSENT OF INSTRUCTOR.

**TAL753 The Social and Cultural Foundations of Education**

*3 credits*

*Fall Semester*

This course is an interdisciplinary seminar reviewing the major literature in the Social and Cultural Foundation of Education. Classic, Modern and Post-Modern texts will be read with an emphasis on the literature written after 1980 (Post-Modern). Emphasis will be placed on the exploration of key policy questions, as well as the analysis of key sociological concepts related to the field such as hegemony, cultural reproduction, social capital and privilege. The course is intended to provide a "baseline" for understanding the field.

PREREQUISITE: DOCTORAL STUDENT STANDING OR CONSENT OF INSTRUCTOR. FULFILLS THE SOCIAL FOUNDATIONS REQUIREMENT FOR DOCTORAL STUDENTS.

**TAL755 Professional Seminar.**

*1- 3 credits*

*Offered By Announcement Only*

Seminar providing study of contemporary topics and professional issues in teacher education.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM.

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**TAL761 Cognitive Psychology in Special Education**

*3 credits*

*Fall Semester*

Learn about different cognitive theorists and discuss various theoretical positions as to their strengths and weaknesses within and across theories. Address theory refinement over time and the application of theory to research practice. Review literature in a systematic manner and write an integrated and purposeful review of research. Develop a research proposal that is theory-based. Participate in the peer review process.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM

**TAL762 Research in Special Education**

*3 credits*

*Fall Semester*

Critical analysis of empirical research studies in selected areas of special education research, focusing on research designs, data analysis methods, and interpretation of findings.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM

**TAL763 Current Issues in Special Education.**

*3 credits*

*Fall Semester*

Current issues and trends in special education from historical, societal, policy, practice and research perspectives. Topics may include identification, referral and eligibility, inclusion and Least Restrictive Environment, parent involvement, participation of students with disabilities in high-stakes testing cultural/linguistic diversity, and teacher qualifications, certification and education.

PREREQUISITE: ADMISSION TO A DOCTORAL PROGRAM.

**TAL764 Issues and Trends in Multicultural Education**

*3 credits*

*Fall Semester*

The study and critical examination of the theory and practice of multicultural education. Development of a personal theory of effective education for pluralistic society.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM

**TAL765 Disability and Diversity: Critical Views**

*3 credits*

*Fall Semester*

Examines the cultural/historical conceptualization of the field of Special Education.

PREREQUISITE: 1 OF TAL 761, 763 OR 764

**TAL769 Topics in Special Education**

*1- 3 credits*

*Spring Semester*

Review of emerging policy, practice, empirical research and scholarly writing on important educational issues for which format 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 topics.

PREREQUISITE: PERMISSION OF INSTRUCTOR AND DOCTORAL STANDING

**TAL770 Associate Teaching in the Elementary School (Semester-Long)**

*3- 6 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: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**University of Miami Bulletin, 2009-2010**  
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**TAL774 Associate Teaching in the Secondary School (Semester-Long)**

*3- 6 credits*

*Fall Semester*

A comprehensive semester-long 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: APPROVAL OF THE COMMITTEE ON FIELD EXPERIENCES.

**TAL778 Associate Teaching in the Elementary School (Year-Long)**

*3- 6 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.

**TAL786 Ph.D. Dissertation in TEaching and Learning / Science Education**

*1-12 credits*

*Fall Semester*

Student enrolled for credit as determined by his/her advisor. Credit is not awarded until the doctoral dissertation has been accepted.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM

**TAL787 Ph.D. Dissertation in TEaching and Learning/Special Education**

*1-12 credits*

*Fall Semester*

Student enrolled for credit as determined by his/her advisor. Credit is not awarded until the doctoral dissertation has been accepted.

PREREQUISITE: ADMISSION TO DOCTORAL PROGRAM

**TAL794 Advanced Individual Study for Doctoral Students**

*1- 3 credits*

*Fall Semester*

Individual work on a special project under faculty guidance. Application for Admission to Advanced Individual Study form will be required.

PREREQUISITE: PERMISSION OF THE DIRECTING FACULTY MEMBER AND DEPARTMENT CHAIR.