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## CLINICAL PSYCHOLOGY

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sis, and spectrophotometry.

Prerequisite: CHEM 460/560 previously or concurrently. CHEM 305 is recommended. F

### **CHEM 566 (2) Biochemical Techniques II**

Students work in teams to solve biochemical research problems by conducting and analyzing experiments which they design.

Prerequisite: CHEM 460/560 and 465/565 S

### **CHEM 574 (2) Chromatography**

Theory and applications of thin layer, paper, liquid, and gas chromatography.

Prerequisite: CHEM 320 previously or concurrently is recommended F-E

### **CHEM 575 (4) Instrumental Analysis**

Theory and practice of modern instrumental methods including basic electronics. Special emphasis placed on sampling methods, analog and digital electronics, electrochemistry, spectrophotometric and chromatographic methods, surface and thin-film analysis, and computer acquisition and data processing techniques.

Prerequisite: CHEM 305; PHYS 212 or 222 previously or concurrently S

### **CHEM 577 (1-3) Special Topics in Instrumental Analytical Chemistry**

Detailed study and focused discussion of a specific analytical technique such as electrochemistry, X-ray analysis, etc., or an area of analysis such as metals, bioanalytical, etc. May be taken more than once for credit, if the topic is different.

Prerequisite: CHEM 305 (or equivalent) V

### **CHEM 579 (4) Teaching Physical Science**

Methods and materials for teaching physical sciences in middle school through high school. Clinical experiences required for the course.

Prerequisite: consent S

### **CHEM 582 (1-3) Problems in Teaching Science**

Investigation of current issues and topics related to the teaching of science in K-12 grades. V

### **CHEM 585 (1-2) Seminar in Environmental Chemistry**

Study of current environmental problems or issues with emphasis on the relevant chemical principles and understanding necessary to monitor or alleviate the problems.

Prerequisite: CHEM 305 (or equivalent) V

### **CHEM 590 (1-6) Workshop**

### **CHEM 591 (1-6) In-Service**

### **CHEM 597 (1-16) Internship**

### **CHEM 602 (1-6) Topics: Analytical Chemistry**

Recent advances in analytical chemistry or detailed study of advanced techniques or areas of analytical chemistry. This course may be taken more than once for credit if the topic is different.

Prerequisite: CHEM 305 (or equivalent) V

### **CHEM 616 (1-6) Topics: Inorganic Chemistry**

Topics from inorganic chemistry which may include such fields as bioinorganic chemistry, organometallic chemistry, solid state chemistry, and other topics of current interest. This course may be taken more than once for credit if the topic is different.

Prerequisite: CHEM 413/513 (or equivalent) V

### **CHEM 621 (2-6) Topics: Organic Chemistry**

Topics may include the chemistry of heterocyclic compounds or natural products, control of stereochemistry, photochemistry, advanced NMR techniques, or other areas of current interest not covered in other courses. This course may be taken more than once for credit if the topic is different.

Prerequisite: CHEM 321 and 331 (or equivalent) V

### **CHEM 642 (2-6) Topics: Physical Chemistry**

Advanced consideration of some fundamental area in physical chemistry with application to a topic of current interest to the instructor and students. The course will depend on reading and discussion of current primary literature. Possibilities include: quantum mechanics and molecular structure calculations, condensed phase structure, development of novel materials, etc.

Prerequisite: CHEM 442/542 (or equivalent) V

### **CHEM 660 (2-6) Topics: Biochemistry**

Detailed study of the literature in one selected area of biochemistry. This course may be taken more than once for credit if the topic is different.

Prerequisite: CHEM 461/561 (or equivalent) V

### **CHEM 677 (1-6) Individual Study**

### **CHEM 682 (2) Chemistry for the Elementary Teacher**

### **CHEM 685 (1-3) Laboratory Supervision & Maintenance**

### **CHEM 690 (1-6) Workshop**

### **CHEM 692 (1-6) Research**

### **CHEM 694 (1-2) Alternate Plan Paper**

### **CHEM 695 (1-2) Graduate Seminar**

Students will present a seminar on either a research proposal for their graduate research or the results of their thesis research.

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### **CHEM 698 (1-8) Internship**

### **CHEM 699 (3-6) Thesis**

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## CLINICAL PSYCHOLOGY MA

*College of Social and Behavioral Sciences*

*Department of Psychology*

23 Armstrong Hall • 507-389-2724

Chair: Rosemary Krawczyk, Ph.D.

Graduate Coordinator: Barry J. Ries, Ph.D.

Paul Brandon, Ph.D.; Michael Fatis, Ph.D.; Nancy Fenrick, Ph.D.; Phillip Goernert, Ph.D.; Daniel Houlihan, Ph.D.; Kimberly O'Farrell, Ph.D.; Edison Perdomo, Ph.D.; Lisa Perez, Ph.D.; Dan Sachau, Ph.D.; Tilman Sheets, Ph.D.; Robert Widner, Ph.D.

The Department of Psychology offers programs of study leading to the MA degree in Clinical Psychology and Industrial/Organizational Psychology.

Application for graduate study in Clinical Psychology should be initiated by contacting the Department of Psychology as well as the College of Graduate Studies and Research. Two separate applications are required. The Clinical Psychology Program application is available from the department and must be submitted to the clinical program to initiate the admission review process. All applicants should arrange to take the GRE and have scores forwarded to the College of Graduate Studies and Research and to the Clinical Program Admission Committee.

**Financial Assistance.** In recent years, the Department of Psychology has been able to award graduate assistantships to some students accepted into the program. Assistantships are awarded on the basis of standardized test scores and past performance as a graduate assistant.

**Program Description.** The Clinical Psychology Program is a full time, two year research oriented course of study which provides theoretical and applied training to students who wish to pursue doctoral study. Graduates typically pursue the doctorate in professional psychology.

**Admission.** In addition to completing the general admission requirements for the College of Graduate Studies and Research, the following must be completed:

1. A bachelor's degree in psychology from an accredited institution. Coursework must include statistics and a course in conditioning, learning or behavior modification.
2. Applicants who have a bachelor's degree other than psychology, from an accredited institution and courses in statistics, experimental psychology, personality, abnormal psychology, a course in conditioning, learning or behavior modification, developmental psychology (child, adolescent, or aging) and a course in history and systems of psychology.
3. Students with undergraduate course deficiencies may be considered, however, they must complete deficiencies prior to enrolling in advanced coursework.
4. The GRE is required (see department for specific requirements).
5. Three letters of recommendation, preferably from psychology professors.
6. A personal statement including the applicant's interest in clinical psychology and long term career goals.

### **CLINICAL PSYCHOLOGY MA**

(Thesis Plan - 50 credits)

#### **Required Core Courses (50 credits)**

PSYC 610	Research Design & Statistics (4)
PSYC 613	Beh. Res. Meth (4)
PSYC 649	Behavior Theory and Philosophy (3)
PSYC 650	Schools of Psychotherapy (3)
PSYC 651	Adult Psychopathology & Therapy (4)
PSYC 654	Clinical Case Management (4)
PSYC 682	Child Psychopathology & Therapy (4)

PSYC 683	Beh. Assessment (4)
PSYC 689	Standards and Ethics (3)
PSYC 691	Clinical Practicum I (2)
PSYC 692	Clinical Practicum II (2)
PSYC 696	Research Clinical Psychology I (3)
PSYC 698	Research Clinical Psychology II (3)
PSYC 699	Thesis (3)

**Required Elective**

0 to 6 credits

**Recommended**

PSYC 519	Psychometric Theory (4)
PSYC 578	Behavioral Medicine (4)
PSYC 618	Multivariate Analysis (4)

**COURSE DESCRIPTIONS****PSYC 504 (4) Memory and Cognition**

A survey of the research and theories describing how humans perceive, elaborate, store, recover, and use information. Emphasis is placed on understanding and evaluating the experimental strategies used to gather data about human mental processes.

Prerequisite: PSYC 201 and 207 or 211 F,S

**PSYC 505 (4) Motivation**

Major concepts of human motivation and emotion, presentation of learned cognitive and biological influences on sustained behavior.

Prerequisite: PSYC 201, 211, or 217, or consent V

**PSYC 507 (4) Advanced Behavior Analysis**

The science and technology of behavior analysis. The application of the principles of operant and respondent conditioning to the understanding and modification of human behavior. The primary mode of instruction is unit/mastery based on the text. There will also be a lab component involving human and animal experiments.

Prerequisite: PSYC 207 F,S

**PSYC 509 (3) History of Psychology**

Examination of the historical origins of the principal contemporary psychological theories.

Prerequisite: two of PSYC 404, 407, 413, or 421 F,S

**PSYC 513 (4) Sensation & Perception**

How the senses respond to environmental stimuli and how the information they provide is organized into meaningful patterns that make up our experience of the physical world. The effect of maturation and learning in altering those patterns are also considered.

Prerequisite: PSYC 201, 207, or 211 F

**PSYC 519 (4) Psychometric Theory**

An overview of development, use, and validation of psychological tests. Topics include reliability and validity, test construction, item analysis, ethics, test administration and scoring, and computerized testing.

Prerequisite: PSYC 201 F

**PSYC 520 (4) Drugs and Behavior**

Drug and alcohol use and abuse including history, biology, psychology, sociology, and clinical treatment and prevention of abuse.

Prerequisite: PSYC 521 or equivalent V

**PSYC 521 (4) Biopsychology**

Biological basis of psychological processes and behavior. Basic topics such as neuroanatomy and neuron function are presented as well as more general ones such as sensation and movement, sleep, memory and learning, schizophrenia and depression.

Prerequisite: PSYC 201, and either 207 or 211

**PSYC 522 (4) Neuropsychology**

This course will provide a detailed analysis of the relationship between human behavior and brain function. Basic topics will include cerebral asymmetry, memory, language, and attention as well as behavioral deficits such as learning disabilities, psychiatric disorders, and disconnection syndromes associated with neurological abnormalities.

V

**PSYC 529 (3) Drug Dependence**

Examination of psychological theories relevant to the prevention and treatment of drug abuse.

Prerequisite: PSYC 101 F

**PSYC 533 (4) Child Psychology**

Physical, social, emotional, intellectual, and personality development from concep-

tion to preadolescence. Focus on interplay between maturation and experience.

Prerequisite: PSYC 101 F,S

**PSYC 536 (4) Adolescent Psychology**

This class covers the development of the individual from the age of 11 to 19 years of age. Discussion will include aspects of both normal and abnormal development F,S

**PSYC 537 (3) Youth and Sports**

Psychological impact of sports on youthful participants.

V

**PSYC 538 (3) Community Psychology**

The application of psychological principles to the assessment, analysis, intervention, and prevention of social problems. Research from an applied behavior analysis perspective will be emphasized.

Prerequisite: 3 PSYC courses V

**PSYC 541 (3) Attitudes**

Examining cultural, social, and individual influences on attitude development and change through lectures and discussions of theories and findings and through experiential activities.

Prerequisite: PSYC 101

**PSYC 542 (3) Group Psychology**

Exploring factors affecting leadership and effective group processes through lectures and discussion of theories and findings and through experiential activities.

Prerequisite: PSYC 101 V

**PSYC 543 (3) Advanced Social Psychology**

An in-depth examination of social psychological research in laboratory and field settings.

Prerequisite: PSYC 201, 211, and 439

**PSYC 548 (3) International Behavior**

Images of foreign nations, cultures, people, and products in travel and cross-national contact. Effects of events, crises, news reporting, education persuasion, foreign policy decision-making, and strategies of international conflict resolution.

Prerequisite: 8 PSYC credits V

**PSYC 551 (3) Methods of Enhancing Performance**

The role of psychological factors in performance and psychological methods of performance enhancement. Factors examined will include attention, motivation, decision making, mental rehearsal, arousal, and self management.

Prerequisite: 8 PSYC credits F

**PSYC 552 (3) Individual Differences**

The nature, extent, and origins of mental, physical, and psychological differences among individuals.

Prerequisite: PSYC 201 V

**PSYC 553 (3) Human Factors**

The person-machine system: the strengths, operating limits, and tendencies of its human component.

Prerequisite: PSYC 201 and 211 or 217 F

**PSYC 555 (4) Abnormal Psychology**

This course is designed to increase the student's awareness and understanding of abnormal psychology. Students will become familiar with clinical descriptions, course of onset, and treatment regimens specific to various disorders.

Prerequisite: 8 PSYC credits F,S

**PSYC 556 (3) Personality**

Major theories of normal personality formation, organization, and structure.

Prerequisite: 8 PSYC credits F,S

**PSYC 557 (3) Cross Cultural Psychology**

Subjective culture effects on communication, culture contact, interactions in socialization, education, workplace, travel, gender, and family.

Prerequisite: 8 PSYC credits V

**PSYC 560 (3) Psychology of Women**

Psychological study of women in historical and functional perspective. Role of hereditary, physiological, and socialization variables on women's thinking, feelings, and behavior.

Prerequisite: PSYC 101 S

**PSYC 561 (3) Marketing Psychology**

Analysis of product marketing and consumer purchasing strategies and their determinants.

Prerequisite: 8 PSYC credits V

**PSYC 562 (3) Management Psychology**

Managerial behavior, problems, and effects in planning, problem-solving, decision-

making, supervision, leadership, conflict, communication, appraisal, motivation, training, and information systems in organizational environments.

Prerequisite: 8 PSYC credits S

**PSYC 563 (4) Survey of Industrial/Organizational Psychology**

An examination of the psychological aspects of human behavior in the work place. Topics include history of industrial/organizational psychology, job analysis, performance measurement, predictors of performance, making personnel decisions, training, satisfaction, social perception, motivation, communication, group process, leadership, and organizational culture.

Prerequisite: PSYC 201, 211, or 217 F

**PSYC 564 (3) Environmental Psychology**

Exploring environmental influences on group and individual perceptions, cognition, attitudes, and behaviors through lectures and discussion of theories and findings and through experiential activities. V

**PSYC 566 (3) Psychology of Aging**

Aging process and development during the adult years, psychology and psychological concerns of the aging individual, and dealing with death.

Prerequisite: PSYC 101 S

**PSYC 573 (3) Teaching of Psychology**

Methods of teaching psychology.

Prerequisite: PSYC 101 V

**PSYC 576 (3) Behavior Therapy**

Principles and procedures of behavior therapy in clinical areas. Emphasis is placed on procedures for developing more appropriate behaviors through positive and negative reinforcement, modeling, and cognitive procedures. Decreasing problematic behaviors through decelerating consequences and exposure techniques is also presented.

Prerequisite: PSYC 211 or 217 V

**PSYC 578 (4) Behavior Medicine**

The interface of behavioral and medical science is explored. Research on environmental and learning factors in the etiology and treatment of physical disease and rehabilitation is examined. Specific topics include pain management, medical compliance, behavior disorders in nursing homes, and chronic illnesses.

Prerequisite: Three courses in PSYC V

**PSYC 590 (1-3) Workshop**

Topics to be announced. May be retaken for credit. V

**PSYC 591 (1) In-Service: Issues in Behavior Therapy**

Current issues in behavior therapy are addressed. Students participate in off-campus didactic activities such as attendance at grand rounds at local hospitals; attendance at national, regional or local professional conferences; and augment learning with library research. Topics vary and students may repeat for credit. Prerequisite: Permission of instructor. Academic and experience in human services strongly recommended.

**PSYC 609 (1-4) Industrial/Organizational Psychology Internship**

Enrollment limited to students in good standing in the industrial/organizational track.

**PSYC 610 (4) Research Design & Statistics**

Research methodology and statistical procedures involving descriptive and inferential techniques for simple and multivariate situations involving parametric and non parametric variables using manual and computer methods.

**PSYC 613 (4) Behavioral Research Methodology**

Covers methods for analyzing treatments and experimental (as well as quasi-experimental) manipulations that focus on the behavior of the individual subject, multiple N=1, and small group designs.

Prerequisite: PSYC 615

**PSYC 618 (4) Multivariate Analysis**

Overview of multivariate statistical analyses including: multiple regression, ANCOVA, MANOVA, discriminate function analysis, and factor analysis.

Prerequisite: PSYC 610

**PSYC 621 (1) Seminar Topics I**

Topics in contemporary psychology. Each instructor selects topic. Sixteen contact hours in seminar format. May be repeated for credit. Prerequisite: permission of instructor

**PSYC 622 (2) Seminar Topics II**

Topics in contemporary psychology. Each instructor selects topic. Thirty-two contact hours in seminar format. May be repeated for credit. Prerequisite: permission of instructor

**PSYC 623 (3) Seminar Topics III**

Topics in contemporary psychology. Each instructor selects topic. Forty-eight

contact hours in seminar format. May be repeated for credit.

Prerequisite: permission of instructor

**PSYC 624 (4) Seminar Topics IV**

Topics in contemporary psychology. Each instructor selects topic. Sixty-four contact hours in seminar format. May be repeated for credit. Prerequisite: permission of instructor

**PSYC 633 (3) Job Analysis & Performance Appraisals**

An overview of techniques used to measure employee performance. Topics include: Job analysis methods and use of results, criterion development, performance appraisal methods, rater training, bias and accuracy in performance appraisal, organizational and contextual issues.

Prerequisite: PSYC 519

**PSYC 649 (3) Behavior Theory and Philosophy**

This course will be a seminar examining the philosophy of science underlying the field of behavior analysis and some of the implications of this approach to human behavior. The course is intended for graduate students in psychology. It will be based on student presentations.

**PSYC 650 (3) Schools of Psychotherapy**

The major schools of psychotherapy are considered from the perspective of their philosophy of science and empirical support. Research strategies and implications for prescriptive intervention are addressed.

Prerequisite: Admittance to clinical program or consent of instructor

**PSYC 651 (4) Adult Psychopath & Therapy**

The diagnosis of adult behavior disorders using the DSM-IV classifications procedures. Behavioral case formulation is emphasized. Students develop skills in cognitive and behavioral intervention strategies.

Prerequisite: admitted to clinical master's program or permission of instructor.

**PSYC 653 (3) Behavioral Consultation**

Detailed collaborative approaches to treatment and referral for mental health practitioners. Appropriate for those going into clinical, school, and counseling psychology, as well as those in special education, guidance and student personnel, and administration.

**PSYC 654 (4) Clinical Case Management**

Techniques of diagnostic assessments, clinical management, and intervention applied to behavior disordered patients. This course emphasizes interviewing, report writing, and treatment planning.

Prerequisite: admitted to clinical master's program or permission of instructor

**PSYC 660 (3) Employee Selection**

Overview of issues and techniques used to make hiring and promotion decisions in organizations. Topic includes: introduction of the selection process, legal and affirmative action issues, validity issues in selection, validity generalization, utility and decision making, and use of selection methods.

Prerequisite: PSYC 610

**PSYC 662 (3) Training & Development**

An overview of theories and techniques used to improve employee satisfaction, employee productivity, and organizational effectiveness. Topics include: identifying problems, intervention techniques, training, determining the effectiveness of training, and intervention programs.

Prerequisite: PSYC 547

**PSYC 677 (1-4) Individual Study**

Individualized learning under faculty supervision. May be retaken for credit.

Prerequisite: 12 graduate credits

**PSYC 682 (4) Child Psychopathology & Therapy**

This course presents behavioral assessments and interventions for children and adolescents who are exhibiting a variety of psychological disorders such as oppositional defiant disorder, attention deficit disorder, fears/phobias, depression, and adjustment disorders. Data based cognitive behavioral interventions with youths, their families, and their environments will be emphasized.

Alt E Prerequisite: PSYC 683 S

**PSYC 683 (4) Behavioral Assessment**

An introduction of the basic theoretical principles and techniques of behavioral assessment in clinical psychology for targeting specific behaviors as the beginning step in treatment, and as a system for evaluating outcomes. Techniques include direct observation, self-monitoring, behavior rating scales, behavioral interviews, task analytic, and cognitive-behavioral measures.

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**PSYC 686 (3) Clinical Assessment**

This course is designed to be a comprehensive assessment course. Multiple tests will be

covered in the areas of intelligence, adaptive behaviors, behavior management measures, personality, and psychopathology. The end goal of the course is competence in administering a complete battery of tests and writing a professional report on the results.

**PSYC 689 (3) Standards and Ethics**

Details the principles and standards put forth by the APA to guide the profession of psychology. The course is oriented towards those going into either a career in therapy (i.e., clinical, counseling, or school psychology) or industrial/organizational psychology.

**PSYC 691 (2) Clinical Practicum I**

Students are placed in clinical settings under the supervision of a licensed psychologist. Placements vary among hospitals, private clinics, and county mental health agencies. Clinical Practicum I covers the first 150 clock hours of the 300 hours needed to fulfill the practicum requirement.

Prerequisite: admitted to clinical master's program OR permission of Director of Clinical Training

**PSYC 692 (2) Clinical Practicum II**

Extension of Practicum I. Students complete the second 150 hours of the 300 hours of supervised practice.

Prerequisite: admitted to clinical master's program, OR permission of Director of Clinical Training

**PSYC 694 (1-2) Alternate Plan Paper**

Individualized student paper based on an extensive review of literature in some area of psychology.

**PSYC 695 (2) Research in Industrial/Organizational Psychology I**

Developing research proposals/projects, ethic committee review, implementing consulting projects, data collection, report writing, presentation to professional societies, and submitting funding requests.

Prerequisite: consent

**PSYC 696 (3) Research Clinical Psychology I**

Students participate on laboratory teams with clinical faculty. Teams develop research proposals and write ethics committee proposals. Projects include clinical field studies, survey studies, and single subject intervention. Students are expected to present findings at meetings of professional associations.

Prerequisite: permission of instructors, Director of Clinical Training, and admission to clinical program

**PSYC 697 (2) Research in Industrial/Organizational Psychology II**

Continuation of Research in Industrial/Organizational Psychology I.

Prerequisite: consent

**PSYC 698 (3) Research in Clinical Psychology II**

Continuation of Research in Clinical Psychology I.

Prerequisite: Permission of instructors, Director of Clinical Training, and admission to clinical program

**PSYC 699 (3-6) Thesis**

Individualized student research paper which involves a literature review and original research.

**COMMUNICATION DISORDERS MS**

*College of Allied Health & Nursing  
Department of Speech, Hearing, and  
Rehabilitation Services*

103 Armstrong Hall • 507-389-1414

Chair: Bruce Poburka, Ph.D.

Graduate Coordinator: Patricia Hargrove, Ph.D.

Cynthia Busch, Ph.D.; Patrica Hargrove, Ph.D.; Judith Kuster, MS; Bonnie Lund, Ph.D.; Carol Myhre, MS; Wayne S. Quirk, Ph.D.; Rene Shellum, MS

Communication Disorders is a discipline in human services offering graduates rewarding careers in speech and language pathology. A Master of Science program is available for students who have an undergraduate major in communication disorders or its equivalent. Employment opportunities are commonly available in schools, hospitals, rehabilitation centers, and private practice. The thesis or the alternate plan programs, when combined with students' undergraduate preparation, lead to the academic and practicum requirements for the Certificate of Clinical Competence (CCC) in Speech Pathology issued by the American Speech, Language and Hearing Association (ASHA). Effective January 1, 1994, all graduate work applied toward the CCC must have been initiated and completed at a program accredited by the Council on Academic Accreditation (CAA) of

ASHA. The Graduate Program in Communication Disorders is accredited by CAA.

**Program Purpose.** It is the purpose of the Master of Science Program in Communication Disorders to provide a high quality of student preparation leading to careers in human services for persons with communication disorders and to promote scientific investigation in the normal and abnormal development and use of speech, language and hearing.

**Admission.** Applications for admission are competitive and must be received by February 1 for admission for the following fall semester. If a vacancy occurs during the academic year, mid-year admission is possible. Approximately ten new admissions are accepted each year. To take graduate level courses, applicants must have been admitted by the College of Graduate Studies and Research. Competitive applicants should have attained (1) a Graduate Record Examination (GRE) score of at least 1200 (2) a grade point average (GPA) of 3.00 or better on a 4.0 scale in 40 undergraduate credits in the basic sciences coursework, as required by the ASHA to meet Standard II, A of the Standards for the Certificate of Clinical Competence, and (3) a minimum of 6 semester credits of coursework appropriate to Standard II, B, professional coursework. Applicants who have not attained the above GPA (3.00) may be admitted provisionally on the basis of their performance on the GRE (contact department for specific requirements and prior experience). Three statements of recommendation are also required as well as submission of a writing sample in the form of a letter of intent.

**Financial Assistance.** A limited number of graduate assistantships in Communication Disorders are available. Application can be obtained from the department or from the College of Graduate Studies and Research and should be filed by February 1 for the following academic year or until positions are filled.

Graduate study in Communication Disorders is fundamentally different than undergraduate work, as graduate students are expected to demonstrate superior academic performance. To be recommended by the faculty for graduation, each student's Plan of Study is reviewed individually for deficiencies.

Since ASHA allows both graduate and undergraduate credits to be applied to certification in speech, graduate students must complete the residual course credits between their undergraduate credits and the total ASHA requirements, as well as the University minimums for theses or alternate plan paper options. Similarly, they must meet the ASHA standard for clock hours of clinical practicum and at least 250 of these hours must be earned at the graduate level. At least 50 percent of students' academic credits must be at the 600 level, excluding the thesis and APP credits. With its emphasis on competency in becoming a speech clinician, students must have experienced clinical supervision by at least two different faculty supervisors. Internship 698 is also required of all graduate students to improve their clinical competencies.

Students graduate on faculty recommendation. Students should be aware the 50 clock hours of supervised practicum is required in a minimum of three different clinical settings. More than one internship may be necessary to meet this requirement, depending upon the student's undergraduate preparation.

**Honesty Policy.** As members of Minnesota State University, Mankato community, students assume the responsibility to meet the academic obligations in a fair and honest manner. This responsibility includes avoiding such activities as cheating, plagiarism or collusion. Please refer to the University policy on academic honesty for definitions of terms and explanations.

**COMMUNICATION DISORDERS MS**

(Thesis Plan - 51 credits)

(Alternate Plan Paper - 52 credits)

**Required Core (45-46 credits)**

- CDIS 518 Seminar: Stuttering (2)
  - CDIS 555 Supervising Paraprofessionals (Lab-Usually taken with 540) (1)
  - CDIS 540 Organization and Management of Clinical Pro.(2)
  - CDIS 577 Instrumentation & Technology in CDIS (3)
  - CDIS 588 Multicultural Issues (3)
  - CDIS 613 Naturalistic Eval. Children (3)
  - CDIS 614 Language Therapy and Children (3)
  - CDIS 615 Sem: Speech Sound Disorders (2)
  - CDIS 616 Seminar: Voice Problems (2)
  - CDIS 621 Motor Speech Disorders (3)
  - CDIS 675 Seminar: Selected Topics (2)
  - CDIS 695-01 Clinical Practicum SLP (2)
  - CDIS 695-02 Clinical Practicum SLP (2)
  - CDIS 522 Clinical Practicum Aud (2)
  - CDIS 698 Internship (1-12) May take more than one internship.
- Other Electives to complete minimum

Graduate Programs