Communication Sciences, Ph.D.

COLLEGE OF PUBLIC HEALTH (http://cph.temple.edu)

About the Program

The Ph.D. program in Communication Sciences seeks to bring students to a level of education at which they may participate as scholars in the discipline. It is the program's objective to provide doctoral students with a base of information broad enough that they understand the contribution made to the discipline by each of its specialization areas, yet deep enough in a chosen area of specialization to enable them to comfortably assume a position of leadership and authority. Students are supplied with valuable expertise that allows them to contribute meaningfully to the discipline. Toward this end, the program emphasizes education in specific methods of research, appropriate to the student's area of specialization, reaching a level at which the graduate will be able to make original and valuable contributions to the knowledge of the field. A final objective is to infuse students with the spirit of scientific inquiry and wisdom in the methods and philosophy of science to place their own contributions, and the contributions of others, in a proper perspective with regard to theoretical and philosophical positions and trends. It is anticipated that graduates will contribute to the discipline as leaders and exemplars in the areas of teaching, research, administration, and clinical services.

Time Limit for Degree Completion: 7 years

Campus Location: Main

Full-Time/Part-Time Status: The degree program can be completed on a full- or part-time basis.

Interdisciplinary Study: Students often take elective coursework outside the department in areas such as Education, Psychology, and others.

Affiliation(s): Cooperative efforts have been established with Temple University Hospital and School of Medicine, the Camden School District, KenCrest Centers, MossRehab, and the School District of Philadelphia.

Areas of Specialization: Areas of concentration are Speech-Language Pathology with emphases in adult language disorders, bilingualism, child language and literacy development and disorders, and motor speech.

Job Prospects: Graduates are prepared for careers in universities and research institutions.

Non-Matriculated Student Policy: Departmental permission is required for registration in graduate classes. A maximum of 9 credits earned as a non-matriculated student may be applied toward the degree.

Financing Opportunities: Research and Teaching Assistantships may be available. Contact the department to inquire.

Admission Requirements and Deadlines

Application Deadline:

Fall: February 1

APPLY ONLINE to this graduate program.

Letters of Reference:

Number Required: 3

From Whom: Letters of recommendation should be obtained from professors, employers, or colleagues who are able to evaluate the applicant's research potential. One letter must be from a previous professor, advisor, or research supervisor.

Coursework Required for Admission Consideration: Prerequisites include the following courses or equivalent subject knowledge:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CSCO 1108</td>
<td>Introduction to Linguistics</td>
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</tr>
<tr>
<td>or CSCO 2219</td>
<td>Psycholinguistics</td>
<td></td>
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<tr>
<td>CSCO 2209</td>
<td>Phonetics and Phonology</td>
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</tr>
<tr>
<td>CSCO 3233</td>
<td>Basic Speech Science</td>
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<tr>
<td>CSCO 3234</td>
<td>Basic Hearing Science</td>
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<td>CSCO 3235</td>
<td>Human Neuroscience</td>
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<tr>
<td>CSCO 3301</td>
<td>Speech and Language Development</td>
<td>3</td>
</tr>
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Total Credit Hours: 22

Master's Degree in Discipline/Related Discipline: A master's degree is not required.
Bachelor's Degree in Discipline/Related Discipline: A baccalaureate degree in Communication Disorders, Education, Linguistics, or Psychology is required.

Statement of Goals: Approximately 500 to 1,000 words address your background, your academic and professional goals, and the fit of your interests with the program.

Standardized Test Scores: GRE: Required. Scores on the verbal and quantitative sections are expected to fall at or above the 50th percentile.

TOEFL: 79 iBT or 550 PBT minimum

Resume: Current resume required.

Writing Sample: A writing sample that is expository in nature, e.g., a chapter of a thesis, a convention paper, and/or a paper from senior undergraduate or master's level coursework, should be submitted.

Advanced Standing: The student's advisor recommends advanced standing to the department based on a review of prior coursework and experience. The maximum number of advanced standing credits awarded is 30.

Program Requirements

General Program Requirements:
Number of Didactic Credits Required Beyond the Master's: 42

Required Courses:
Course requirements are decided based on the background and needs of individual students. However, all students must complete a teaching practicum, at least 9 credits in Statistics and Research Design, and a course in the History and Philosophy of Science and Theory Construction.

Culminating Events:

Preliminary Examination:
The preliminary examination is a comprehensive examination of the student's knowledge within the broad field of her/his graduate study. It is generally taken upon completion of coursework. The student should demonstrate an adequate level of general knowledge of the field, specific knowledge of her/his area of specialization, and an ability to pursue the dissertation. To be admitted to the examination, the student must have satisfied the residency and research tool requirements. The exam is available in two forms, both of which require an oral defense:

• Option 1: The student takes a written exam that consists of three questions written and graded by members of the student's Advisory Committee.
• Option 2: The student writes a databased paper that is suitable for publication in a refereed journal.

The student must pass the preliminary examination in no more than two attempts. The Advisory Committee evaluates the exam on a pass/fail basis. All judgments are by committee consensus.

Proposal:
The dissertation proposal should demonstrate that the student has arrived at a significant and investigable problem, and that s/he has the necessary knowledge and skills to investigate it successfully.

Dissertation:
The dissertation is an original study that makes a significant and publishable contribution to the field. It should demonstrate a thorough knowledge of the theoretical and empirical literature of the area of investigation. It should also be of sound and rigorous methodology. Original research of quality appropriate for publication in a first-tier national journal is expected.

Graduate School guidelines for announcing the defense are followed. Notice is given through postings, email, and listserv announcements. The defense is two hours in length.

Contacts


Department Information:
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Department Contacts:
Admissions:
Dawn Dandridge
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215-204-9005

Chairperson:
Carol Schefner Hammer
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215-204-3971

Courses

CSCD 5411. Psycholinguistics. 3 Credit Hours.
Presents information about the processing and use of language including language acquisition, lexical retrieval, syntactic parsing, and language production in children and adults with normal and disordered communication systems.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5501. Modern Linguistics I - Syntax. 3 Credit Hours.
Scientific investigation of grammatical structure in language. Data from English and other languages are used to study phrase structure, empty categories, movement, etc.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5502. Phonology I. 3 Credit Hours.
The nature of sound systems in human language. Students investigate data from a variety of languages and language families.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5503. Morphology. 3 Credit Hours.
The study of word structure in nature language is investigated with examples from a variety of languages. Students are guided toward analyzing morphological phenomena of many types.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5505. Issues in Linguistics. 3 Credit Hours.
A critical investigation of major intellectual trends in the recent history of linguistics and their relationship to contemporary issues in philosophy, psychology, and anthropology.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5521. Foundations in Child Language Disorders. 3 Credit Hours.
An overview of theory, research and clinical issues concerning disorders of language in young children. Major categories of language disorder such as emotional disturbance, mental retardation, hearing loss, and specific language impairment are considered. Treatment and assessment techniques are reviewed and evaluated.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 3301|Minimum Grade of C|May not be taken concurrently.

CSCD 5522. Foundations and Management in Phonological Disorders. 3 Credit Hours.
Presentation of information and experiences to prepare students to assess and treat individuals with phonological disorders.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 2209|Minimum Grade of C|May not be taken concurrently
AND CSCD 3233|Minimum Grade of C|May not be taken concurrently
AND CSCD 3301|Minimum Grade of C|May not be taken concurrently).
CSCD 5524. Fndtns-Mgmnt in Motor Sp. 2 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 5522|Minimum Grade of C|May not be taken concurrently.

CSCD 5525. Foundations and Management in Fluency. 3 Credit Hours.
A survey of the characteristics and theories on the nature of stuttering, and a review of the principles and practices of assessment and intervention strategies.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 3233|Minimum Grade of C|May not be taken concurrently.

CSCD 5526. Foundations in Adult Language Disorders. 3 Credit Hours.
Presents an overview of acquired neurogenic language disorders and the ways in which these disorders have historically been described and explained. Approaches to diagnosis and treatment of adult language disorders from structural to functional models are discussed.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 2219|Minimum Grade of C|May not be taken concurrently AND CSCD 3235|Minimum Grade of C|May not be taken concurrently).

CSCD 5528. Voice Dis: Theory & Analysis. 3 Credit Hours.
To acquaint the student with the symptomatology and disorder complexes related to phonation and the philosophies and methods used in the treatment of voice disorders including cleft palate and laryngeal voice.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Spch Lang Hearing Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 3233|Minimum Grade of C|May not be taken concurrently AND CSCD 3235|Minimum Grade of C|May not be taken concurrently).

CSCD 5529. Case Studies. 1 Credit Hour.
This seminar patterns itself on the Grand Rounds format used in hospitals in which a clinician presents information about a patient/client to a group of peers. The course is structured to provide interdisciplinary interactions because so many of the patients/clients we work with have multiple problems and solutions are usually interdisciplinary in nature.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5531. Applications in Audiology. 1 Credit Hour.
Practical labwork with audiometric equipment, test procedures, administration interpretation, principles of case management and report writing.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Spch Lang Hearing Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 4301|Minimum Grade of C|May not be taken concurrently.

CSCD 5532. Foundations and Management in Hearing Disorders. 3 Credit Hours.
This course reviews basic communication sciences and their role in the development of (re)habilitative strategies for use with both adults and children with hearing impairment.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 4301|Minimum Grade of C|May not be taken concurrently.

CSCD 5533. Principles of Audiology. 3 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5534. American Sign Language I. 3 Credit Hours.
An introductory course to provide the necessary skills for basic communication in American Sign Language. The relationship between manual and oral systems and the implications of deafness on communication are considered.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.
CSCD 5634. American Sign Language II. 3 Credit Hours.
A continuation of the basic introduction to American Sign Language through exploration of the language used by Deaf people in America, the syntax, grammar, and vocabulary necessary in ASL. In addition various aspects of Deaf culture will also be discussed.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 5534|Minimum Grade of C|May not be taken concurrently.

CSCD 5729. Language and Deafness. 3 Credit Hours.
An introduction to deaf studies: the linguistic structure of American Sign Language, how modality of production-perception shapes language organization (comparisons of signed and spoken languages), deaf culture, deafness and minority cultures, deafness and child development, issues and options in deaf education, deafness in old age.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 5730. Topics in Speech, Language and Hearing. 1 to 3 Credit Hour.
Special Topics in the area of Speech Language Pathology which change from semester to semester are presented. Topics and instructors for a specific semester are announced by the department and posted on the CSCD department's listserv and web site.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 8147. Basic Practicum in Audiology. 1 Credit Hour.
Basic practicum in audiology at Temple University Speech and Language Center or one of the field placements with emphasis on basic audiologic testing and interpretation.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 5531|Minimum Grade of C|May not be taken concurrently)
AND CSCD 5532|Minimum Grade of C|May not be taken concurrently).

CSCD 8187. Basic Practicum in Diagnostic Processes. 1 to 3 Credit Hour.
Introduction to assessment of speech-language disorder. Emphasis on assessment tools, procedures, rationales, and interpretation.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 8187|Minimum Grade of C|May not be taken concurrently.

CSCD 8287. Basic Practicum in Therapy Processes. 1 to 3 Credit Hour.
Introduction to remediation of speech-language disorders. Emphasis on therapy methodologies and techniques, procedures, and rationales based on evidence-based practice, and analysis and interpretation of therapy outcomes.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 4396|Minimum Grade of C|May not be taken concurrently.

CSCD 8601. Advanced Syntax. 3 Credit Hours.
A study of recent advances in syntactic theory, focusing on the tension between universal grammar and the properties of particular languages.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8721. Foundations and Management in Augmentative and Alternative Communication. 2 Credit Hours.
This course provides information on the identification of individuals who would benefit from Augmentative and Alternative Communication, on assessment of functional communication needs across environments, and on current regulations and documentation to obtain funding for a speech-generating device.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8722. Foundations and Management in Dysphagia. 2 Credit Hours.
An overview of swallowing processes and disorders specific to the adult and pediatric populations. Assessment and treatment will be discussed.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 3233|Minimum Grade of C|May not be taken concurrently.
CSCD 8723. Project in Speech Language Hearing. 1 Credit Hour.
Topics change from semester to semester and are presented in an intensive, in-depth seminar format over a weekend (Friday 3:00-8:00 and Saturday 8:30-5:30). Topics for a specific semester are posted on the Department's website at the beginning of each semester. Usually taught spring semester.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8724. Management of Adult Language Disorders. 3 Credit Hours.
This course builds on the theoretical foundation for acquired adult language disorders. The central theme is the evaluation and treatment of these disorders across a variety of settings with consideration given to the present climate of health care and functional outcomes.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Spch Lang Hearing Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 5526|Minimum Grade of C|May not be taken concurrently.

CSCD 8725. Disorders of Articulation and Phonology: Special Populations. 2 Credit Hours.
Presentation of information and experiences to prepare the speech and language specialist to assess, diagnose and treat persons with articulation disorders associated with cleft palate, apraxia, dysarthria and oral myofunctional disorders.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8726. Management of Child Language Disorders. 3 Credit Hours.
Presentation of information and specific skills to prepare the speech and language specialist to function in the educational setting in a variety of roles.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Spch Lang Hearing Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
CSCD 5521|Minimum Grade of C|May not be taken concurrently.

CSCD 8727. Written Language Development and Disorders. 2 Credit Hours.
This course focuses on the developmental processes of written language acquisition and written language disorders (dyslexia). Special attention to phonological awareness and the cognitive processes underlying this awareness.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 5521|Minimum Grade of C|May not be taken concurrently
AND CSCD 5522|Minimum Grade of C|May not be taken concurrently
AND CSCD 8726|Minimum Grade of C|May not be taken concurrently).

CSCD 8728. Voice Disorders: Spec Pop. 2 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8738. Proj in Spch Lang Hear. 1 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8821. Lang & Cog: Dev & Disorder. 2 Credit Hours.
Concentrated study of special topics in the area of child language disorders.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CSCD 5521|Minimum Grade of C|May not be taken concurrently
AND CSCD 5522|Minimum Grade of C|May not be taken concurrently).

CSCD 8824. Assessment and Treatment of Diverse Populations. 2 Credit Hours.
Concentrated study of language development and disorders in culturally and linguistically diverse populations. Less biased assessment and intervention approaches are discussed.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Spch Lang Hearing Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

CSCD 8830. Seminar In CSD. 1 Credit Hour.
This course focuses on preparing students to work with children from birth through six years in an interdisciplinary environment.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
CSCD 8860. Seminar in Speech Science. 3 Credit Hours.
In-depth experience in the speech science lab with a variety of instruments and techniques. Readings and discussions cover speech production and perception.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9087. Practicum in Hearing. 1 Credit Hour.
Basic-level practicum to expose students to the problems and therapeutic measures experienced by and available for hearing impaired individuals from childhood through adulthood in various habilitative/rehabilitative settings.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9187. Advanced Practicum in Voice. 1 Credit Hour.
Advanced level practicum at a field affiliation or at Temple University Speech and Hearing Center (stuttering and voice disorders) with focus on in-depth diagnosis and treatment of a specific disordered population, i.e., L.D., M.R., post-CVA, stuttering, voice, hearing impairment, etc.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 5528 Minimum Grade of C May not be taken concurrently.

CSCD 9287. Advanced Practicum in Fluency. 1 Credit Hour.
Advanced level practicum with an in-depth focus on assessing and treating persons who stutter.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 5525 Minimum Grade of C May not be taken concurrently.

CSCD 9387. Advanced Field Practicum in Speech Language Pathology - Child. 3 Credit Hours.
Advanced level practicum at a field affiliation with focus on in-depth diagnosis and treatment of communication and/or swallowing disorders in a specific disordered child population, i.e., SLL, L.D., M.R., stuttering, voice, hearing impairment, etc. On-site for three days or more.
Department restrictions: Must be enrolled in one of the following Departments: CPH:Communication Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 8726 Minimum Grade of C May not be taken concurrently.

CSCD 9487. Advanced Field Practicum in Speech Language Pathology - Adult. 3 Credit Hours.
Advanced level practicum at a field affiliation with focus on in-depth diagnoses and treatment of communication and/or swallowing disorders in a specific disordered adult population, i.e., L.D., M.R., post-CVA, stuttering, voice, hearing impairment, etc. On-site for three days or more.
Department restrictions: Must be enrolled in one of the following Departments: CPH:Communication Science
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 5526 Minimum Grade of C May not be taken concurrently.

CSCD 9582. Independent Study - Communication Sciences. 1 to 6 Credit Hour.
Qualified students will be permitted to conduct investigations and/or in-depth study under supervision of department faculty.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9587. Advanced Practicum in Aphasia. 1 to 3 Credit Hour.
This advanced-level practicum focuses on in-depth assessment and treatment of persons with aphasia and/or cognitive-linguistic deficits.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
CSCD 5526 Minimum Grade of C May not be taken concurrently.

CSCD 9980. Dissertation Seminar. 1 to 6 Credit Hour.
Current topics in speech-language-hearing research.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9994. Preliminary Examination Preparation. 1 to 6 Credit Hour.
Study for exams preliminary to dissertation.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
CSCD 9996. Thesis Seminar. 1 to 6 Credit Hour.
Preparation of master’s thesis.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9998. Pre-Dissertation Research. 1 to 6 Credit Hour.
Development of dissertation proposal. Registration required each semester after Preliminary Examinations while researching the dissertation proposal.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

CSCD 9999. Dissertation Research. 1 to 6 Credit Hour.
Dissertation project.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Student Attribute restrictions: Must be enrolled in one of the following Student Attributes: Dissertation Writing Student
Repeatability: This course may be repeated for additional credit.