Research Methods and Statistics

MA and PhD Degrees

Student Handbook

2011 – 2012

Last Updated 8/8/11
The University of Denver Morgridge College of Education Student Handbook provides prospective and admitted students with policies and procedures to assist them as they progress through the requirements of MCE degrees certificates. In addition to this handbook, the student should also refer to the Morgridge College of Education Bulletin available at http://www.du.edu/education/resources/current-students/handbooks.html and the University of Denver Graduate Studies Policies available at http://www.du.edu/grad/current-students/forms.html. In some cases, college and university policies take precedence over the regulations of the Student Handbook. It is the student's responsibility to read and understand University, College, and program norms relating to the degree programs, and to complete program and degree requirements in a timely fashion.

The University of Denver reserves the right to make changes in the regulations, courses, rules, fees or other changes in this handbook without advance notice.

Inquiries concerning programs in the MCE should be directed to the Morgridge Office of Admissions, 1999 E Evans Ave., Denver, CO 80208-1700; Phone 303-871-2509 and edinfo@du.edu.

The University of Denver (Colorado Seminary) is an Equal Opportunity Institution. It is the policy of the University not to discriminate in the admission of students, in the provision of services, or in employment, on the basis of race, color, religion, sex, national origin, age, marital or veteran status, sexual orientation, or physical or mental disability.

Inquiries concerning allegations of discrimination based on any of the above matters may be referred to the University of Denver Affirmative Action Office, 2020 E. Evans Ave., Room 104, Denver, CO 80208-4840, 303-871-2307, or the U.S. Department of Education, Office of Civil Rights, 1244 Speer Blvd., Denver, CO 80204.
## Contents

### PART I: OVERVIEW

- General Contact Information ........................................................................................................ 5
- Location ........................................................................................................................................... 5
- Accreditation .................................................................................................................................... 6
- Program Overview ............................................................................................................................ 6
- Core Program Content ...................................................................................................................... 6
- Unique Program Features .................................................................................................................. 6
- Program Learning Goals .................................................................................................................... 7

### PART II: PROGRAM REQUIREMENTS AND POLICIES

- Autumn Orientation .......................................................................................................................... 10
- Morgridge College of Education Office of Admissions (MOA) and Office of Academic Services (OAS) .................................................. 10
- Student Responsibilities ................................................................................................................... 11
- Academic Policies and Procedures ................................................................................................ 11
  - Academic Advisor ......................................................................................................................... 11
  - Transfer of Credit ......................................................................................................................... 12
  - Course Work Plan ........................................................................................................................ 13
  - Cognate Requirement ................................................................................................................... 14
  - Practicum .................................................................................................................................... 14
  - Comprehensive Examination or Thesis Options ........................................................................ 14
  - Master’s Thesis or Doctoral Dissertation .................................................................................... 14
  - Institutional Review Board (IRB) ............................................................................................... 15
  - Student Annual Review .............................................................................................................. 15
  - Registration for Graduation ........................................................................................................ 16
  - Extension of a Degree Program ................................................................................................. 16
  - Ethical Behavior and Conduct .................................................................................................... 16
  - Probation or Dismissal from the Program .................................................................................. 17
  - Grievance Process ....................................................................................................................... 18

### PROCEDURE FOR ACADEMIC GRIEVANCES FOR GRADUATE STUDENTS – REVISED AUGUST 2010

- Section I: Grievable Concerns ....................................................................................................... 18
- Section II: Formal Grievance Process ............................................................................................ 18
- Section III: Guidelines for Interpretation and Implementation .................................................... 21
- Degree Requirements ..................................................................................................................... 21
  - RMS Master’s Degree ................................................................................................................. 21
  - RMS Doctor of Philosophy Degree .......................................................................................... 23
- MCE Dissertation Credit Policy ..................................................................................................... 28
- University Continuous Enrollment Policy ...................................................................................... 29

### PART III: PROGRAM, COLLEGE, AND UNIVERSITY OFFICES, PERSONNEL, AND RESOURCES

- Student Associations ...................................................................................................................... 31
- RMS Faculty .................................................................................................................................. 31
- Other University of Denver Faculty ............................................................................................... 32

### PART IV: ETHICAL CODES AND PROFESSIONAL STANDARDS

### PART V: PROFESSIONAL ASSOCIATIONS

### PART VI: STYLE GUIDE, COMMUNICATION CHANNELS, TECHNOLOGY

- APA Requirements .......................................................................................................................... 33

RMS Student Handbook, 2011-2012, Page 3
PART I: OVERVIEW

Welcome to graduate studies in Research Methods and Statistics (RMS). The goal of the RMS MA and PhD degrees is to enhance the development and use of research in the social and health sciences. Our goals as faculty are to equip you with cutting-edge research skills, creative educational vision, social responsibility, and sufficient experience in application of your skills and knowledge to achieve a feeling of comfort. We are committed to shaping a safe, sustainable, democratic and just world and believe that high quality research is one approach to doing this. We are pleased to have you join us in this venture.

RMS Faculty

General Contact Information

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Research Methods and Statistics
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Office of Academic Services, Morgridge College of Education
303-871-2112, oas@du.edu
For assistance related to academic records, comprehensive exam registration, graduation application process, and general college support.
Primary contact: Nick Heckart, nheckart@du.edu

Office of Admissions, Morgridge College of Education
303-871-2509. ed-info@du.edu
For assistance related to admissions.

Janet Erickson, Director of Financial Aid
303-871-2485, jerickso@du.edu
For assistance with Financial Aid, scholarships, and GA.

In Part III of this handbook, a complete list of faculty and staff associated with the RMS program is provided.

Location
The faculty and staff offices for the RMS Program are located in Ruffatto Hall, home of the Morgridge College of Education, 1999 E Evans Ave, Denver, CO. Many, but not all of the classes
will be held in Ruffatto Hall. There is limited visitor parking in lots near the building. For parking information, consult [https://www.parking.du.edu/default.aspx](https://www.parking.du.edu/default.aspx).

**Accreditation**
All degrees at the University of Denver are accredited through the North Central Association of Colleges and Schools.

**Program Overview**
The education and social sciences fields have a growing need for professionals with strong skills in research design and data analysis. The Research Methods and Statistics Program (RMS) provides the courses and experiences necessary to conduct and supervise effective social science research. The program is individually planned around students' backgrounds and career goals. Most students prepare for positions that require consulting, research, measure development, policy-making, and teaching. Small seminars, independent projects, and a practicum offer opportunities for an individualized and well-rounded program.

Our goal is to equip you with cutting-edge research skills, a creative educational vision, social responsibility, and sufficient experience in application of your skills and knowledge to achieve professional competence. Graduates with RMS degrees hold professional positions at testing companies, universities, school districts and state agencies, among others. Admission to the master's program requires a BA or BS degree. Admission to the doctoral program requires a Master's degree.

**Core Program Content**
The RMS Program embraces a holistic and comprehensive view of quantitative and qualitative research methods and the importance of mixed methods designs. Foundations include quantitative and qualitative research, measurement, statistics, mixed methods, and program evaluation. Research methods include classical quantitative methods as well as several qualitative approaches. Students can elect to emphasize evaluation or a content area within or outside of education as a minor. All students conduct original research during their studies and are encouraged to present and/or publish their work. Practicum experiences also are encouraged in diverse sites, including school systems, educational research agencies, mental health agencies, and businesses.

**Unique Program Features**
In addition to the facilities of the entire campus, there are three features of the RMS Program at DU that distinguish it as a strong graduate program. We are particularly fortunate to have an outstanding faculty. Professors are not only leaders in their fields but also demonstrate a deep commitment to students' academic as well as personal growth. While our professors set high standards for students, they also individualize requirements to meet each student's needs and goals.

Another excellent feature of this program is the students themselves. A wide range of experiences, creative ideas, sincere dedication to research, and a sense of humor are some of...
the characteristics of people in our program. We enjoy each other's genuine cooperation, encouragement, and inspiration.

Small class sizes are the third distinguishing feature of our program. It is one that enables us to get to know one another and engage in ongoing dialogue about topics of interest, form study groups, and give advice about the direction of a project or dissertation. Personal and professional friendships form and continue long after graduate school.

These features contribute to an outstanding educational experience. We feel fortunate to be part of a program in which professors make themselves readily available for consultation, students support and assist one another, and small class sizes result in rich interaction among students and faculty.

The RMS program is one of seven programs offered within the Morgridge College of Education. Students may opt to take cognate courses from programs within or outside of the Morgridge College of Education. RMS students take classes with students in programs from across the College. The College structure is pictured on the following page.

**Program Learning Goals**
The broad learning goals of RMS are as follows. Students will:

- Have a general knowledge of research methods and program evaluation and advanced knowledge of psychometrics and statistics;
- Think critically about research;
- Engage in research serving professional and local communities; and
- Understand ethics as they apply to research and behave in an ethical manner.

RMS goals relate to the MCE mission in advancing scholarship via practice and encouraging critical thought.

Data addressing learning outcomes come from multiple sources: (1) grades in courses, (2) annual review of RMS students, (3) comprehensive exams, (4) practicum and other research products, (5) dissertations, (6) selected items from MCE surveys of continuing and graduating students, (7) RMS alumni survey, (8) course evaluations, and/or (9) Research and Scholarship Committee discussions. Learning outcomes along with evaluation criteria and a synopsis of the process for reviewing data are listed below.
### Learning Goals

**Learning Goal 1** (have a general knowledge of research methods and program evaluation and advanced knowledge of psychometrics and statistics) and **Learning Goal 2** (think critically about research)

<table>
<thead>
<tr>
<th>Learning Outcomes: Students will demonstrate skill in</th>
<th>Criteria for Evaluating Learning Outcomes</th>
<th>Process for Collection and Review of Evidence</th>
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</table>
| 1) Designing research to address significant problems, with knowledge and understanding of the strengths and limitations of diverse modes of inquiry. | 1) Success in coursework (B or better): Empirical research methods (RMS 4930), Introduction to Qualitative Research (RMS 4941), survey research (RMS 4931), meta-analysis (RMS 4932)  
2) Comprehensive exam performance (MA and Ph.D.)  
3) Research practicum  
4) Dissertation quality  
5) 3 MCE survey items (skill with critical thinking..., current level of expertise in designing quantitative research studies..., current level of expertise in designing .. qualitative research) | 1) track student grades—reviewed annually by RMS faculty  
2) review RMS student comprehensive exam performance on research methods questions—done each quarter there is a student taking an exam by both RMS faculty with discussion of mistakes on comps  
3) Practicum advisor reviews product, which then is submitted for presentation (or publication)  
4) Review by dissertation committee, with a goal of including a content expert external to DU on each committee and 100% student pass with no/minor changes  
5) survey data collected by College—review of item responses by RMS faculty |
| 2) Applying appropriate analytic strategies in analysis of quantitative data. | 1) Coursework: introductory, intermediate, and advanced statistics classes  
2) comprehensive exam performance  
3) research practicum  
4) dissertation quality  
5) 1 MCE survey item (current level of expertise in statistics) | 1) track student grades—reviewed annually by RMS faculty  
2) review RMS student comprehensive exam performance on statistics questions—done each quarter there is a student taking an exam by both RMS faculty with discussion  
3) Practicum advisor reviews product  
4) Review by dissertation committee  
5) survey data collected by College—review by RMS faculty |
| 3) Creating and evaluating measures using diverse analytic strategies. | 1) Coursework: RMS 4921, RMS 4960  
2) Comprehensive exam performance  
3) dissertation quality  
4) 1 MCE survey item (level of expertise in designing measures) | 1) track student grades—reviewed annually by RMS faculty  
2) review RMS student comprehensive exam performance on measurement questions  
3) Review by dissertation committee  
4) survey data collected by college |
4) Crafting coherent and concise expressions of ideas related to research, and communicating those ideas effectively.

1) Coursework: RMS 4930
2) dissertation quality
3) conference presentation or publication
4) 2 MCE survey items (skill with written communication, skill with verbal communication)

5) Students will demonstrate a commitment to continuing learning by engagement with professional and local communities.

1) membership in professional organizations (goal of all students maintaining membership in at least one relevant professional organization)
2) presentation, publication, and/or service to journals or professional organizations (goal of all students having presented and/or published prior to graduation)
3) practica in local organizations

6) Students will demonstrate professional behavior by understanding research ethics and adhering to an ethical code of conduct.

1) coursework in research ethics (RMS 4930, RMS 4931)
2) IRB process
3) 1 MCE survey item (level of knowledge of ethics...)

1) track student grades—reviewed annually by RMS faculty
2) Review by dissertation committee
3) paper accepted under peer review process
4) survey data collected by College—review by RMS faculty

1 & 2) student annual review—discussed by RMS faculty on an annual basis
3) placement in local sites for practicum

1) track student grades—reviewed annually by RMS faculty
2) mandatory submission of IRB applications—supervision by major advisor
3) survey data collected by College—review by RMS faculty
Part II: PROGRAM REQUIREMENTS and POLICIES

The following provides information on the policies and procedures that specifically affect students. However, this is not an exhaustive list. The University of Denver’s Graduate Policies and Procedures 2011-12 are the first layer of academic policy under which all college and program policies are administered. The Graduate Policies and Procedures 2011-12 document can be found at: http://www.du.edu/media/documents/graduates/10-11policy.pdf.

College policies are the second layer. Students should refer to the Morgridge College of Education Bulletin for specific policies and procedures on academic matters such as time limit, incomplete grade policies, registration, academic appeals procedures, and other information. The MCE Bulletin can be found at: http://www.du.edu/education/resources/current-students/index.html.

Students should check with their Academic Advisor or Morgridge College of Education Office of Academic Services for clarification of the policies and procedures that are College-wide in their applicability.

Autumn Orientation
Prior to the beginning of the autumn quarter, students are strongly encouraged to attend an orientation session that introduces them to the program, its faculty, and staff. Meeting other students, learning about faculty expectations, discussing professional roles and responsibilities, filling out initial course work plans, registering for courses, receiving pre-practicum materials, and engaging in Q&A sessions comprise the basic agenda.

Morgridge College of Education Office of Admissions (MOA) and Office of Academic Services (OAS)
To meet the requirements of your degree or certificate program, and to receive information about financial assistance, students are encouraged to work closely with MCE staff, especially in the Morgridge Office of Admissions (MOA) and the Office of Academic Services (OAS). These offices can provide information and assistance from initial inquiry through graduation. For questions related to financial aid, contact the Office of Admissions which is located on the first floor of Katherine A. Ruffatto Hall in the east wing, 303-871-2509. For questions related to academic requirements, including the comprehensive exam and graduation application, contact the Office of Academic Services, located on the third floor of Ruffatto Hall in the east wing, 303-871-2112.

The Office of Academic Services can provide essential assistance in submitting forms related to coursework and in understanding college and university academic policies. However, the faculty member assigned as your Academic Advisor should be the primary resource for decisions related to choice of courses.
Student Responsibilities
In addition to following the University of Denver Honor Code and behaving according to the professional ethical standards of our field, students are expected to take responsibility for their success in the program. The faculty is responsible for supporting all students’ efforts in achieving success, but, ultimately, success is the student’s responsibility. Students are responsible for keeping all official university records up to date, meeting deadlines for filing any document needing faculty, program, college, or university approval, being prepared for advising meetings and classes, fulfilling the obligations of all coursework, and behaving responsibly and courteously in interactions with fellow students, faculty, staff, and professionals in the field. If circumstances create a situation which may make it difficult for a student to meet program obligations, including class work, the student must let the instructor and/or advisor know of these difficulties as soon as possible.

Academic Policies and Procedures

Academic Advisor
When a student is admitted, an academic advisor is assigned with consideration of the areas of interest indicated in the student’s application materials. A student may be assigned to a faculty member who is not in the student’s area of interest because of needing to balance the number of student advisees across the faculty. However, all faculty are prepared to advise students in their selection of courses, filing of the Coursework Plan, and other program requirements. The academic advisor works with the student to complete and approve the course work plan, select electives, and submit necessary documentation for transfer credits or other coursework-related documentation. The academic advisor also guides the student in development of the student’s professional goals. All of the faculty are available for career guidance. However, only the academic advisor should give the student academic program advice and approvals.

It is the responsibility of the student to make appointments to meet with his or her advisor at least once per academic year.

First year students should meet with the academic advisor during the first quarter of study.

Students should come prepared to their academic advising appointments, bringing any relevant forms and an unofficial transcript.

Faculty members generally work on nine-month contracts during the regular academic year. During the summer, students may need to work with the Program Coordinator if their advisor is not on campus.

Grade Requirements
A satisfactory quality of achievement with a grade point average of B (3.0) or better is required by the college in graduate course work counted toward the degree. The average is determined on the basis of the University's grading system. Credits carrying below a "B-" will not be
accepted by the program as meeting degree requirements. Any student whose overall grade point average falls below a 3.0 will be warned, put on probation, suspended or dismissed. The Graduate Student Records Office informs the Morgridge College of Education in writing at the end of each quarter when a student's cumulative GPA falls below 3.0. It is the program's responsibility to inform the student. The student must contact his or her advisor to develop a plan designed to remedy the academic deficits. After two consecutive quarters of deficit, the student will be dismissed from the program.

Advanced degrees are not awarded automatically on completion of the required number of courses or hours of credit. The candidate's status is subject to review at any time.

**Transfer of Credit**

Transfer credit is applicable only when recommended by the college, school, or department and approved by the appropriate student services office.

- Coursework and credit hours already applied toward a graduate degree received from DU or another institution cannot be accepted as transfer credit towards another graduate degree of the same level.
- Graduate credits earned at DU or another accredited institution can be applied towards a DU graduate degree as long as they were not part of a program in which a degree was granted.
- The student must initiate in writing the request for transfer of credit through the program of study and is responsible for seeing that the appropriate student services office of the college, school, or department has approved the request.
- An official transcript must be on file.
- The transfer credit must have been earned as graduate credit at a regionally accredited institution offering a graduate degree program in a similar field for which the student is currently seeking a degree. Transfer credit is approved on a course-by-course basis (unless it is a blanket transfer of credit hours for a doctoral program from a previously earned Master's degree).
- The credit must have been earned within a five-year period preceding the request for transfer of individual courses. Exceptions to this regulation may be made only by petition with specific justification by the college, school or department to the Associate Provost for Graduate Studies.
- Coursework with a “B-“ grade may be requested to be transferred, providing the average of all graduate transfer coursework is “B” or better. If only one course is to be transferred, the grade must be “B” or better (a grade of “B-“ or lower is unacceptable).
- Courses taken on a Pass/Fail basis are not acceptable for transfer, unless the instructor provides a class syllabus and the student provides proof from the institution that a “Pass” is equivalent to a “B” or better.
- Transfer credit is not included in the computation of the grade point average for the current degree.
- All transfers of credit should be completed within the first term of admission or at least one term prior to the term of graduation.
Procedure
Prior to Enrollment
Credits earned prior to enrollment in a degree program at DU may be transferred to meet degree requirements at DU according to the following regulations:

Students Entering DU without a Previous Graduate Degree
- The request for the transfer must be made during the first quarter of attendance as a DU degree-seeking student.
- Transfer credit toward a 45 credit hour Master’s degree is generally limited to 10 quarter hours.

Students Entering DU Doctoral Program with a Master’s Degree
- Fifteen quarter hours may be allowed to be transferred provided the credits have been earned after the Master’s degree was awarded.

After Enrollment
If the credit to be transferred is earned while the student is already enrolled in a degree program at DU, students may transfer graduate credit earned from a regionally accredited institution to meet degree requirements at DU according to the following regulations:
- The student must initiate in writing a request for approval of outside course work, prior to enrolling in the course. The written petition, submitted to the department, college, school or institute, should include the name of the institution where the course will be taken, the course title, number of credit hours, course description, and the student’s reasons for requesting outside credit.
- All transfers of credit should be completed at least one term prior to the term of graduation.

The form required to initiate a transfer of credit can be found at: http://www.du.edu/media/documents/graduates/transfer.pdf.

Course Work Plan
Complete a Course Work Plan with your advisor during your first quarter of enrollment for MA students.

For PhD students, submit by your third quarter of enrollment or before you have completed 30 credit hours of coursework.

After it has the proper signatures, make a copy for your files, and submit the approved plan to the Office of Academic Services. If any changes occur in your course work plan during your program, have your advisor approve all changes, then submit it to the OAS. Changes to the plan may be made at any time based on discussion with your advisor.
Cognate Requirement
All MA students must complete a cognate or minor study in a field outside their major area of study, determined in conjunction with the student's major course work advisor. The credits required to fill this obligation vary depending upon the student's prior graduate level course work (if any) in the minor field.

All PhD students complete a cognate or minor study in a field outside their major area of study, determined in conjunction with the student's major course work advisor. The credits required to fill this obligation vary depending upon the student's prior graduate level course work (if any) in the minor field. The cognate should add to one’s breadth or depth of knowledge in evaluation, research methods, and statistics. Graduate-level classes, chosen in consultation with an advisor, can be taken from (1) the RMS Program, (2) other programs within the Morgridge College of Education, or (3) any other department at University of Denver.

Practicum
MA students complete an evaluation practicum. Students work with their advisor in deciding which project to pursue. The goal of the practicum is to provide field experience in evaluation.

PhD students complete a research practicum. Students work with their advisor in deciding the focus of this practicum. The goal of the practicum is to provide field experiences in designing, conducting, and presenting research. It is intended that every doctoral student will submit the paper written from the practicum for presentation at a national conference and/or publication. It is the intent of the program that students receive multiple experiences with conducting research projects during the program, and so students are strongly encouraged to work with a RMS faculty member on an independent research project as well as their practicum prior to initiating work on a dissertation.

Comprehensive Examination or Thesis Options
Students must pass a comprehensive examination near or at the end of the course work. It is offered three times a year, in fall, spring and summer quarter respectively. There is no fee for taking Comprehensive Exams, however, students must register for the exam. Information on when exams are offered and how to register can be found at http://www.du.edu/education/resources/current-students/exams.html. MA students may choose to either take the Comprehensive Exam or complete a Master’s Thesis. MA students are not obligated to do both a thesis and comprehensive exam.

Master's Thesis or Doctoral Dissertation
Master’s candidates have the option to develop a thesis proposal and present it to a committee. Doctoral students must complete a dissertation. Both MA and PhD students should refer to the Morgridge College of Education’s dissertation handbook, known as Completing the Doctoral Dissertation: Guidelines for Students, which can be found on the MCE website, http://www.du.edu/education/display/docs/handbooks/2010-2011handbooks/Dissertation_Thesis_Handbook.pdf. Students should refer to the Graduate
Studies dissertation instructions found at:

**Institutional Review Board (IRB)**
Researchers who use human participants in their research must follow specific guidelines as a condition for using the data provided by these persons. If your proposal involves human participants, you will need to submit an application to the Institutional Review Board (IRB). In consultation with his or her doctoral director, the student prepares an IRB application and submits it to the University’s Office of Research and Sponsored Programs (ORSP). The IRB judges your application on issues related to protection of participants from physical and emotional distress and not on theoretical or methodological grounds. Your study cannot go forward until IRB approval is received. In many cases, minor revisions to your study will be necessary to gain approval. The IRB meets monthly, so plan on a several week lag between approval of the dissertation proposal and the beginning of data collection. Collecting data prior to receiving IRB approval is considered sufficient grounds for halting a research study. In general, students should not submit their IRB application before the proposal defense as any major changes in the proposal would necessitate re-applying to the IRB. IRB procedures, requirements, and application materials can be viewed/downloaded at:

A short, multiple choice test is required with the IRB application that can be taken on line or in person. According to DU’s ORSP, “education on the protection of human research participants is required for all investigators conducting research involving human subjects. To access DU's on-line "Education Program for the Protection of Human Subjects in Research" go to: http://www.du.edu/osp/instructions.html.” Please call 303-871-4052 with any questions you may have about the testing process for IRB at DU.

**Student Annual Review**
Annually, the RMS ask you to take an active role in program planning by providing us with self-evaluation of (a) your progress in meeting your own educational goals, (b) your strengths and weaknesses as a developing research methodologist, and (c) how the RMS program can better assist you in achieving your educational goals.

- Please complete this self-evaluation form and submit it to your advisor before May 1st. Please keep a copy of your self-evaluation form. The forms are available in the Appendices.

- After the submission please make an appointment with Dr. Zhang, the Program Coordinator, to hold a 30-minute joint planning meeting with the program faculty by the end of May. Do you do this for all students? Are you saying each student meets with the entire faculty?
  - The purpose of the meeting is to discuss your progress during the past year and develop directions for your work in the next year. When coming to the meeting please bring the following documents:
    - Most recent curriculum vitae
注册毕业
所有学生必须在毕业的前两个季度内申请毕业。申请表可在 webCentral 上线。在计划的毕业季度期间，学生确保没有因罚款、交通罚单或其他未缴清的费用。

延长学位课程

硕士（MA）学位课程的候选人应在其所在学生项目研究的 5 年内完成其学位。这一时间是从初始入读日期开始计算的。在特殊情况下，学生可申请一个延长期限，但不超过一年。延长期限请求不会自动批准，必须认为是例外情况。有关提交学术延长申请的指示，包括延长时间，可找到：http://www.du.edu/media/documents/graduates/exceptions.pdf。未在规定期限内完成学位学习的学生将不允许再申请延长，其学位课程将终止。具体的延长程序可找到在 MCE 公告中。

博士（PhD）学位课程的候选人应在其所在学生项目研究的 7 年内完成其学位。这一时间是从初始入读日期开始计算的。在特殊情况下，学生可申请一个延长期限，但不超过一年。延长期限请求不会自动批准，必须认为是例外情况。有关提交学术延长申请的指示，包括延长时间，可找到：http://www.du.edu/media/documents/graduates/exceptions.pdf。

伦理行为和行为

大多数学生了解，在考试中复制另一个学生答案，复制另一个学生的论文，偷窃试卷，使用禁止的材料在闭卷考试中，等等，都包括在学术作弊的典型定义中。再次，作为学生，你们应该知道这样的行为是不可接受的，并且根据 DU 诚信守则，是将学生置于留级或开除大学的理由。请参考 DU 诚信守则：http://www.du.edu/ccs/honorcode.html。学生被期望达到美国心理学会（APA）规定的行为最高水平。
In the RMS Program at the University of Denver, we have tried to maintain an atmosphere of student cooperation. As a result, students are often encouraged to work together on a project or to prepare for tests. Students prepare together for exams and often share notes, references, etc. On the other hand, it is and has been unacceptable in almost any academic setting to use other people's ideas or data without giving them credit. This is called plagiarism and is considered unethical according to the APA (2010) Code of Ethics. As a result, the Program faculty wants to clarify that it is similarly unacceptable in our Program to "borrow" another student's work without giving him or her credit. It is often the case that professors use similar or identical assignments from year to year. Usually, this is because they believe the assignments are useful in teaching students a particular concept or skill. Using papers written by others, or parts of papers, materials, and handing it in as your own work is clearly unethical. It is tempting in the guise of friendship to pass on to new students copies of old assignments knowing that a professor will use the same one in future years. It is also tempting for new students to borrow copies of old assignments. Such behavior is, however, unfair to other students who do not have "friends" from whom to borrow assignments, to the student whose work is being "borrowed" without credit, and to the student who is "borrowing" the assignment since they do not have to do the learning involved in working through the assignment on their own. As a result, the faculty will consider such behavior to be cheating and it will be treated like other forms of cheating specified in the first paragraph. Points may be deducted from a student’s grade is cheating is discovered, and/or the student may be referred to the Office of Student Conduct.

Unethical behavior will be considered cause for dismissal at any time during a student’s program. These policies are described more fully in the MCE Bulletin. Violations of code of student conduct or the honor code are overseen by the Office of Student Conduct (http://www.du.edu/ccs) in conjunction with an appointed DU Conduct Review Board. This office can be contacted with questions about these policies and procedures at 303-871-4851.

**Probation or Dismissal from the Program**

Students who do not follow program or university policies may be placed on probation and ultimately dismissed from the program. While these instances are rare, should they occur, students first will be contacted by their advisor and then will be informed in writing of all concerns that have been raised. In other words, students will be told specifically and in writing of any issues in regards to academic progress or attendance, interpersonal or practice effectiveness, or ethical violations. Students also will be asked to respond to these concerns personally and in writing. Decisions regarding probation or dismissal will be considered by the Program Director and RMS faculty in consultation with the MCE Associate Dean. Students will be informed of all pertinent information regarding the basis for the decision.

If a doctoral student fails the comprehensive examination, the student will be given the opportunity to retake the examination when it is next offered. If failed a second time, the student may be eligible to receive a Master’s degree in RMS but will be dismissed from the doctoral program.
**Grievance Process**

**Procedure for Academic Grievances for Graduate Students – revised August 2010**

Students may seek resolution of complaints or grievances through the Academic Grievance Procedure during their enrollment at the University of Denver. Graduate units may have additional requirements specific to their accreditation or professional standards. It is the responsibility of the student to determine whether his or her graduate unit has specific requirements and the responsibility of the unit to ensure that those requirements are addressed prior to advancing the grievance to the Office of the Provost. In the event of conflict between any grievance process published in unit manuals or websites, the process outlined in the Graduate Policy Manual will govern.

**Section I: Grievable Concerns**

A. These procedures may be used only by active students with the following concerns:
   1. A grievance regarding academic standing during their enrollment at DU
   2. An academic decision made by a faculty or staff member, administrator or committee of the University of Denver that directly and adversely affects the student—e.g., program termination, academic suspension, removal from a course, termination of GTA or GRA appointment
   3. The grievance must be based on problems of process or concerns of bias, retaliation, or other impropriety and not on differences in judgment or opinion concerning academic performance.

B. These Procedures may not be used to resolve the following concerns:
   1. Appeals related to disciplinary actions taken by the Conduct Review Board
   2. Grade appeals
   3. Admission decisions

**Section II: Formal Grievance Process**

**First Level: Informal Resolution**

Students are expected to attempt to resolve complaints informally with the faculty or staff member, administrator or committee responsible for the academic decision. This attempt must include discussion of the complaint with the involved party or parties. *If all reasonable informal efforts to resolve a complaint fail, the student may file a formal grievance.*

If the complaint involves a charge of unlawful discrimination, the student may report the situation to an appropriate supervisor who must immediately notify the Office of Diversity and Equal Opportunity.

The following flowchart summarizes the Procedure for Academic Grievance:
Procedure for Academic Grievance

Second Level: Submission of the Formal Grievance to Program Director/Chair
If a student elects to file a formal grievance, he/she must do so within 60 days of notification of the academic decision. All grievances must be filed in writing, be signed and dated by the grievant, and include supporting documentation at the time it is filed. The grievant must minimally provide the following information:

- a clear description of the decision being grieved
- the basis or bases for challenging the decision
- the identity of the party or parties who made the decision
- the specific remedy or remedies requested; and
- a description of all informal resolution attempted.

The decision of the Program Director or Department Chair must be issued in writing within 30 days of receiving the grievance and shall include all of the following:

- a copy of the student’s formal grievance
- relevant findings of fact

*The Provost may refer grievance appeals to appropriate bodies or personnel.*
• decision and the reasons for the decision reached, and
• the remedy which is either granted or denied and/or any alternative remedies suggested.

Third Level: Submission of the Formal Grievance to Dean
The party who finds the resolution unsatisfactory may appeal the decision in writing to the Dean of the academic unit within 5 working days of receiving the Program Director or Department Chair’s written decision.

The Dean may render a decision on the matter or may refer the grievance to a standing grievance/appeal committee or establish an ad hoc committee to hear the matter. When an ad hoc committee is established, the student who lodges the appeal may designate one of the faculty members who will serve on this committee. This member must be tenured or tenure-track faculty from the University of Denver. Members of the unit involved in the grievance may not serve on the ad hoc committee and must recuse themselves if they are members of the standing committee.

The committee may, at its discretion, receive from the student, relevant faculty or staff members or other individuals, any additional evidence or argument that it deems necessary to resolve the grievance.

The appeals committee will begin deliberations as soon as possible and provide the dean a written recommendation no later than 30 days after the date that the dean’s office received the written, dated request for appeal at this level. The dean will make a final decision and distribute it to all affected parties within 5 working days after receiving the committee’s recommendation.

Fourth Level: Submission of the Formal Grievance to Provost
The party who finds the resolution unsatisfactory may appeal the decision to the Provost within 5 working days of receiving the dean’s decision. The Provost will hear only those grievances based on problems of process or concerns of bias, retaliation, or other improprieties and not on differences in judgment or opinion concerning academic performance. Within 5 working days after receiving the appeal, the Provost may refer grievance appeals to appropriate bodies or personnel. If the issue is referred to the Graduate Council, its Chair will appoint three members of the Council as a Grievance Committee to hear the case and shall designate one of the committee members to serve as Chair.

Anyone called upon by the Provost or his/her designee shall submit a written recommendation within 30 days of receiving the case. The Provost is the final authority in the matter and will report the disposition of the case to all involved parties within 30 days of receiving a recommendation from his/her designee.
Section III: Guidelines for Interpretation and Implementation

Scope of Review
Any University agent charged with reviewing a formal grievance may, at his or her discretion, gather additional relevant facts if necessary and/or meet with involved parties. The reviewer will base her/his decision on documented evidence.

Deviation from Procedures
In unusual circumstances, the Provost, at her/his sole discretion, may approve or direct a deviation from these Procedures, for example, postponement of a time limit or elimination or addition of a step in the process.

Grievance Record
Documentation in support of a grievance will be held by the person responsible for considering the grievance at that stage and passed along to the person responsible for the next step, if any. A record of meetings or interviews must be made and kept as part of the grievance record as well. The complete grievance record will consist of the original grievance, all documentary evidence, and all formal decisions made at each step of the process.

Failure to Meet Deadlines
If, after a formal grievance is filed, the University agent charged with review of the grievance fails to meet any deadline at any stage of the process, the grievant may proceed directly to appeal to the next higher University administrator in the manner prescribed by these Procedures, subject to the relevant time limitation calculated from the date of the missed deadline. The failure of any University administrator to meet any deadline shall not entitle the grievant to any relief requested, nor shall such a failure be construed as tantamount to a decision in the grievant’s favor. Any grievant who fails to meet the deadlines imposed by these Procedures will be bound by the decisions previously made.

Degree Requirements

RMS Master’s Degree
The program in QRM at the MA level focuses on measurement, research design, statistics, and evaluation. All Master’s students will take courses in assessment and communication as well as major area studies. Students can also take thesis credits. A blank course work plan is available as Appendix A, and on the MCE website at http://www.du.edu/education/resources/current-students/coursework-plans.html. Master’s students will take courses in assessment and RMS and complete a comprehensive examination or an optional thesis. Students are also required to take courses in related studies or a cognate field. The minimum credit requirement for the program is 45-quarter hours, though students with no quantitative background must take a minimum of 47-quarter hours. Students may transfer a maximum of 10-quarter hours above the bachelor’s degree with approval during the first quarter of enrollment. Any waived courses must be approved by an advisor.
## I. MCE Requirements (3 cr. hrs.)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Measurement (or) Psychometric Theory</td>
<td>RMS 4920 (or) RMS 4921</td>
</tr>
</tbody>
</table>

## II. Program Requirements (13 cr. hrs.)

### A. Research Design

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey Design Analysis</td>
<td>RMS 4931</td>
</tr>
<tr>
<td>Empirical Research Methods</td>
<td>RMS 4930</td>
</tr>
<tr>
<td>Research Ethics</td>
<td>RMS 4952</td>
</tr>
<tr>
<td>Meta Analysis in Social Sciences Research</td>
<td>RMS 4932</td>
</tr>
<tr>
<td>Introduction to Qualitative Research</td>
<td>RMS 4941</td>
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</table>

### B. Statistics (9 cr. hrs.)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Introductory Statistics</td>
<td>RMS 4910</td>
</tr>
<tr>
<td>Correlation Regression</td>
<td>RMS 4911 (or) PSYC 4300</td>
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### C. Evaluation (6 cr. hrs.)

<table>
<thead>
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<th>Course #</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Program Evaluation Theory (required)</td>
<td>RMS 4960</td>
</tr>
<tr>
<td>Choose at least one of the following:</td>
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<tr>
<td>Program Development and Evaluation</td>
<td>CFSP 4363</td>
</tr>
<tr>
<td>International Project Analysis</td>
<td>INTS 4333</td>
</tr>
<tr>
<td>Cost Benefit Analysis</td>
<td>PPOL 4500</td>
</tr>
<tr>
<td>School Admin: Program Dev and Evaluation</td>
<td>ADMN 4820</td>
</tr>
<tr>
<td>Program Development and Evaluation</td>
<td>CNP 4730</td>
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<tr>
<td>Program Development and Assessment</td>
<td>HED 4262</td>
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</table>

### D. Practicum (3 cr. hrs. min.)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicum in Research</td>
<td>RMS 4980</td>
</tr>
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</table>

### E. Cognate (Minimum 5 hours)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Minimum 5</td>
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</tbody>
</table>

## III. Thesis Option (Minimum 10 hours)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Minimum 5</td>
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</table>

Total Minimum 45 hours

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### Summary of Degree Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits Required</th>
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<tbody>
<tr>
<td>I. Morgridge College of Education Requirements</td>
<td>3</td>
</tr>
<tr>
<td>II. Program Requirements</td>
<td></td>
</tr>
<tr>
<td>A. Research Design</td>
<td>13</td>
</tr>
<tr>
<td>B. Statistics</td>
<td>9</td>
</tr>
<tr>
<td>C. Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>D. Evaluation Practicum</td>
<td>3</td>
</tr>
<tr>
<td>E. Cognate</td>
<td>Minimum 5</td>
</tr>
<tr>
<td>III. Thesis Option</td>
<td>10-15</td>
</tr>
<tr>
<td>Total</td>
<td>Minimum 45 hours</td>
</tr>
</tbody>
</table>
### RMS Doctor of Philosophy Degree

All students are required to complete a course plan with their advisors. A blank course work plan is available as Appendix B, and on the MCE website at [http://www.du.edu/education/resources/current-students/coursework-plans.html](http://www.du.edu/education/resources/current-students/coursework-plans.html). Doctoral students will take courses in assessment, RMS, and dissertation research. Students are also required to take courses in related studies or a cognate field. The minimum credit requirement for the PhD is 90-quarter hours.

<table>
<thead>
<tr>
<th>I. MCE Requirements</th>
<th>Course #</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Research (17-22 cr. hrs.)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Empirical Research Methods</td>
<td>RMS 4930</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Qualitative Research</td>
<td>RMS 4941</td>
<td>4</td>
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<tr>
<td>Dissertation Research</td>
<td>RMS 5995</td>
<td>10 min.</td>
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</table>

<table>
<thead>
<tr>
<th>II. Program Requirements</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>A. Assessment (2 cr. hrs.)</strong></td>
<td></td>
<td></td>
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<tr>
<td>CFSP Testing and Assessment</td>
<td>CFSP 4361</td>
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</table>

<table>
<thead>
<tr>
<th><strong>B. Measurement (8 cr. hrs.)</strong></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Psychometric Theory</td>
<td>RMS 4921</td>
<td>3</td>
</tr>
<tr>
<td>Item Response Theory</td>
<td>RMS 4922</td>
<td>3</td>
</tr>
<tr>
<td>Meta Analysis in Social Sciences Research</td>
<td>RMS 4932</td>
<td>2</td>
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</table>

<table>
<thead>
<tr>
<th><strong>C. Research Methods (13 cr. hrs.)</strong></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Structural Foundations of Research in Social Sciences</td>
<td>RMS 4940</td>
<td>3</td>
</tr>
<tr>
<td>Program Evaluation Theory</td>
<td>RMS 4960</td>
<td>3</td>
</tr>
<tr>
<td>Mixed Method Research Design</td>
<td>RMS 4951</td>
<td>4</td>
</tr>
<tr>
<td>Research Ethics</td>
<td>RMS 4952</td>
<td>1</td>
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</table>

**Choose at least one of the following**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Topics in Research Design</td>
<td>RMS 4959</td>
<td>1-5</td>
</tr>
<tr>
<td>Arts-Based Research</td>
<td>RMS 4947</td>
<td>3</td>
</tr>
<tr>
<td>Ethnographic Research</td>
<td>RMS 4946</td>
<td>4</td>
</tr>
<tr>
<td>Survey Design Analysis</td>
<td>RMS 4931</td>
<td>3</td>
</tr>
<tr>
<td>Single Case Research Design</td>
<td>CFSP 4364</td>
<td>3</td>
</tr>
<tr>
<td>Community Based Research</td>
<td>RMS 4945</td>
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<table>
<thead>
<tr>
<th><strong>D. Statistics (27 cr. hrs.)</strong></th>
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<tbody>
<tr>
<td>Correlation &amp; Regression</td>
<td>RMS 4911 (or) PSYC 4300</td>
<td>4/5</td>
</tr>
<tr>
<td>Analysis of Variance</td>
<td>RMS 4912 (or) PSYC 4330</td>
<td>5/5</td>
</tr>
<tr>
<td>Multivariate Analysis</td>
<td>RMS 4913</td>
<td>5</td>
</tr>
<tr>
<td>Hierarchical Linear Modeling</td>
<td>RMS 4915</td>
<td>4</td>
</tr>
<tr>
<td>Structural Equation Modeling</td>
<td>RMS 4914</td>
<td>5</td>
</tr>
<tr>
<td>Latent Growth Curve Modeling</td>
<td>RMS 4916</td>
<td>4</td>
</tr>
<tr>
<td>Topics in Statistics</td>
<td>RMS 4919</td>
<td>1-5</td>
</tr>
</tbody>
</table>
### III. Practicum (3 cr. hrs. min.)

| Practicum in Research | RMS 4980 | 1-5 |

### IV. Cognate (Minimum 20 credit hours)

20 min

<table>
<thead>
<tr>
<th>Summary of Degree Requirements</th>
<th>Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. Morgridge College of Education Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>A. Research</td>
<td>17-22</td>
</tr>
<tr>
<td><strong>II. Program Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>A. Assessment</td>
<td>2</td>
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<tr>
<td>B. Measurement</td>
<td>8</td>
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<tr>
<td>C. Research Methods</td>
<td>13</td>
</tr>
<tr>
<td>D. Statistics</td>
<td>27</td>
</tr>
<tr>
<td><strong>III. Practicum</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>IV. Cognate</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Minimum 90 hours</strong></td>
</tr>
</tbody>
</table>

**Suggested Course Sequencing**

Note: The recommended sequence for the statistics courses is as follows:
1. RMS 4930 or equivalent (offered Fall quarter, sometimes in Summer)
2. RMS 4952, RMS 4960 (offered Fall & Winter)
3. RMS 4950 (offered Spring quarter)
4. RMS 4925, RMS 4956 (offered alternate years)
5. RMS 4955 (offered periodically)

For measurement courses, the recommended sequence is:
1. RMS 4905 (offered Winter)
2. RMS 4906 (offered Fall every second year), RMS 4909 (offered Spring every second year)

For research courses, the recommended sequence is:
1. RMS 4903, RMS 4921, RMS 4951
2. CFSP 4364 (offered periodically)

**Waived Course**

If it is appropriate to waive a course, the course credit hours must still be utilized for another course. A waived course does not mean a reduction in credit hours required. The student’s advisor must complete the appropriate form (available at [http://www.du.edu/education/resources/current-students/forms.html](http://www.du.edu/education/resources/current-students/forms.html)) indicating the course waived and the course designated as the substitute for the waived course. This must be done in the first quarter of enrollment. It is the student’s responsibility to ensure that the form is submitted to OAS along with the coursework plan.
Waiver Process for Required Doctoral Research Courses

You **may** be able to waive a course **IF**
- You have taken a similar course at graduate level within 5 years with a grade of B or better.
  **OR**
- You can demonstrate content knowledge through coursework or work experience.

Take the syllabus from the comparable course and any other relevant material to the **instructor of the course you want to waive** for that faculty member to review—e.g., contact the RMS program chair to identify who the instructor is (for 2011-2012 Kathy Green for RMS 4910, 4920, and 4930 and Nick Cutforth for RMS 4951).

If approved, complete a waiver form with signatures of the **instructor of the course you want to waive** and your advisor.

**Student files waiver with OAS.**

If **not** approved, you may elect to attempt to test out of the course by taking a written test on the course content. If you score above 80%, you will not be required to take the course. You may **retake** the test once.

If you do not pass the test on the first or second attempt, you must register for and take the course.

If you pass the test, file an email notice from the course instructor saying you have tested out with OAS—**student files email notice with OAS.**
Test-Out Exams

A student may attempt to test-out of the following required courses:

- RMS 4910 Introductory Statistics  5 credit hrs
- RMS 4920 Educational Measurement  3 credit hrs
- RMS 4930 Empirical Research Methods  3 credit hrs
- RMS 4951 Introduction to Qualitative Research  4 credit hrs

The credit hours associated with the class you successfully test out of MUST be utilized for other, more advanced research courses. Please note that you are still required to complete at least 28 hours of research credits [covering the 17 introductory credit hours, a minimum of 8 intermediate credit hours, and a minimum of 3 advanced level credit hours]. You should consult with the instructor of the course you wish to test out of if you have any questions or need advice about whether or not you should take the course or test out.

Exams are scheduled on a case-by-case basis. All exams are closed book and no notes, materials, or other persons may be used or consulted during the exam.

Waiver Process for Other Doctoral Courses

You may wish to waive courses that are required by your program that you have taken in prior coursework or for which you have content knowledge through work experience. The process to waive courses other than required research courses is: First, consult your advisor to discuss courses you think you can waive. Your advisor will direct you to the instructor of the course you wish to waive or waive the course him/herself depending on program protocols. Second, you will consult with the instructor of the course you wish to waive if advised to do so, bringing the syllabi from a course you think is comparable or other relevant materials. If that faculty member agrees that you can waive the course, complete a waiver form signed by the instructor of the course you wish to waive and signed by your advisor. Give the waiver form to your advisor and keep a copy for yourself. You will indicate on your coursework plan that the course was waived. It is the student’s responsibility to ensure the waiver form and coursework plan are both filed with OAS. OAS will retain the waiver form along with the updated coursework plan. If the instructor of the course you wish to waive does not agree that you can waive the course, you must register for the course.

Doctoral Comprehensive Examination

Purpose

The purpose of the Ph.D. comprehensive examination is to allow students to demonstrate ability to integrate the information and knowledge of research, measurement, and statistical theory and practice acquired during the degree program. Registration deadlines are on the MCE website.
**Format**
The test will be taken over a two-day time period with a different set of questions for each day. You are expected to organize your writing to give equal time to each question and to include time to proofread your answers. Some questions will be required and there will be some choice among others.

**Evaluation Criteria**

**Accuracy in addressing the questions**
In writing your responses to the question it is important to address the questions that are asked, without omitting parts of a question and without answering questions that were not asked.

**Skill in defining issues**
Each of the questions presented will relate to a particular problem area in Research Methods and Statistics. In order to give focus to your response you must be able to identify the particular issue or issues you are addressing.

**Clarity in stating your position**
While few questions can be answered by a simple yes or no as an expert in Research Methods and Statistics you are often required to take what seems to be the best and or most responsible position in terms of the evidence you have available at that time. In writing your responses in this examination ask yourself if a reader is able to identify clearly and directly the point of view you are developing.

**Competence in applying information**
To take a position on an issue is more than to repeat your own biases. You need to provide evidence in the form of bibliographic references specific data and quotations (direct or indirect) from authorities to substantiate the points you make. As a scholar in the field you are expected to be able to demonstrate that your opinions are well informed.

**Clarity in writing**
At this level of study you should be able to express yourself in clear and direct prose. Are you developing your responses logically and coherently? Poorly stated and illogically presented responses obscure rather than illuminate. Can a reader follow the structure of your argument? Do you use correct grammar construction and form?

**Overall adequacy**
Do you address the issues, reveal insight into problems, and document your position adequately?

**Examples of Comprehensive Exam Questions for Doctoral Students**

1. Differentiate among experimental, quasi-experimental, and correlational research designs in terms of control of extraneous variables and the validity of drawing causal inferences. Illustrate each design with an example.

2. Show how the internal consistency reliability coefficient (e.g., Cronbach’s alpha) is derived from the assumptions of true-score theory.
3. Compare and contrast multiple regression, canonical correlation, ANCOVA, and factor analysis in relation to the following:
   a. Type of research question(s) appropriately addressed by each technique
   b. Numbers and types of variables appropriate for the technique
   c. Important assumptions (if any)
   d. Important mathematical similarities and differences

**Doctoral Dissertation Policies**
Completion of a project of original research leading to the dissertation is a major requirement of the doctoral program. The MCE determines the amount of credit allowed for research and work on the dissertation. Specific guidelines and instructions for the dissertation can be found at [http://www.du.edu/learn/graduates/studentresources.html](http://www.du.edu/learn/graduates/studentresources.html) under Policies and Forms, where you will find step-by-step instructions on how to submit the thesis/dissertation.

**Students must pass their comprehensive exam prior to defending their dissertation proposal.**


Once the student has completed successfully all required courses and the required comprehensive exam, a student must follow the MCE Dissertation Credit Policy and DU Continuous Enrollment Policies.

**MCE Dissertation Credit Policy**
Dissertation credits are reserved for work on the dissertation, which generally occurs after a student has completed all required courses and after successful completion of the required comprehensive exam. In some programs, however, a student may be under the direct supervision of a faculty member and begin preliminary work on the dissertation. A student may register for dissertation credits before completing and passing the comprehensive exam under the following conditions: 1) if the student’s Dissertation Advisor agrees to work directly with the student on a regular basis throughout the quarter in which the student is registering for dissertation credit; and 2) if the student is prepared and able to dedicate substantial work to dissertation planning and preparation.

To conduct preliminary dissertation work, the student must have the support of the dissertation advisor. The dissertation credit form can be obtained from the Morgridge College of Education’s Office of Academic Services, where the eligibility for credit will be verified prior to obtaining the faculty advisor’s required signature.

**The student must register for dissertation credits during the first week of class of the quarter in which the work will be conducted.**
The policy regarding preliminary dissertation work is as follows:

- A student may register for no more than 50% of the minimum number of dissertation credits required by his/her program prior to the completion of all course work and comprehensive exams. Dissertation credit, as with any credits, will not be refunded if the student does not successfully complete his/her dissertation, other required courses, or qualifying or comprehensive exams.
- Once the student has completed successfully all required courses and the required comprehensive exam, the student must register for dissertation credits. The faculty support students in the dissertation process by providing advising during this phase of the Ph.D. It is the expectation of the faculty that each student will successfully complete the required dissertation with quality work.

In order to encourage the completion of the dissertation, the policy requiring dissertation credits is as follows:

A student is required to remain continuously registered for dissertation credit at the minimum rate of one credit per quarter (Academic Year of Fall, Winter, and Spring quarters), until the student has completed the minimum necessary number of dissertation hours required by the student’s program AND until a successful dissertation defense has occurred. Therefore, depending on the time a student takes to successfully complete the dissertation, registration for additional dissertation credits may be necessary beyond the required minimum.

University Continuous Enrollment Policy
All graduate degree-seeking students must be in active status and continuously enrolled. Enrollment may consist of registration for courses, thesis, or dissertation credits, or Continuous Enrollment registration. The University Continuous Enrollment Policy is ideal for students who need to defer loan repayment while completing the dissertation, though you must consult with the appropriate DU Financial Aid Office for more specific information.

Keep in mind you must also register for one credit hour of dissertation research (RMS 5995) each quarter until you graduate per the MCE Dissertation Credit Policy (noted above). If a student is on a full-time, year-long internship required by your program, this generally applies to Counseling Psychology and Child, Family, and School Psychology students only, please see your program handbook for specific instructions on meeting MCE and DU requirements.

If a student is registering for RMS 5995 for less than four (4) credits in a given quarter AND you are attempting to defer student loan repayments, the University Continuous Enrollment Policy should be utilized in addition to the MCE Dissertation Credit Policy. You are advised to always contact the DU Office of Financial Aid to clarify any financial aid requirements. The MCE does not provide financial aid policy interpretation so please consult the appropriate office for support on any financial aid policy.
To register for University Continuous Enrollment, a form must be completed and approved by the Morgridge College of Education, who will submit it to the Associate Provost for Graduate Studies for final approval.

For the complete DU Graduate Studies Continuous Enrollment Policy, please go to: http://www.du.edu/media/documents/graduates/10-11policy.pdf.

For the University Continuous Enrollment form and instructions, please go to: http://www.du.edu/media/documents/graduates/CE.pdf.

Please note that completing the University Continuous Enrollment form DOES NOT register you for continuous enrollment. Permission to enroll for Continuous Enrollment is granted for one academic year beginning in the fall quarter. Students requiring Continuous Enrollment after fall quarter registration must complete and submit a new form prior to the beginning of the fall quarter of the subsequent academic year. Continuous Enrollment permission is granted for one (1) full academic year.

REGISTRATION must be completed QUARTERLY. Students are responsible to register for Continuous Enrollment each quarter, and for payment of the $50.00 registration fee and the associated technology fee, $4 per credit hour. Students should register for CENR 5600 (Doctoral, 8 credit hours). Doctoral students working on a dissertation CENR 5600 registrations will confer loan eligibility or loan deferment if the student is eligible to receive financial aid. Students with an approved time extension for completion of their degree program, but who are no longer eligible for Financial Aid because they are past the aid eligibility time limit (10 years Doctoral) register for: CENR 5700 (Doctoral Level, Non Financial Aid Eligible, 0 credit hours). CENR 5700 registrations do not confer loan eligibility or loan deferment.

Some examples of how to use these two policies:

1. If you are not concerned about loan repayment issues or not currently receiving some form of financial aid, you may only need to register for the MCE Dissertation Credit Policy. Please consult the DU Office of Financial Aid for specific requirements.
2. If you are receiving some form of financial aid and/or you need to defer loan repayment while you are working on your dissertation, the University Continuous Enrollment Policy would be necessary in addition to the MCE Dissertation Credit Policy. Please consult the DU Office of Financial Aid for specific requirements.
PART III: PROGRAM, COLLEGE, and UNIVERSITY OFFICES, PERSONNEL, AND RESOURCES

Student Associations

Graduate Student Association Council (GSAC)
The mission of this organization is to represent and to serve all graduate students at the University of Denver. This shall be accomplished by soliciting the views of graduate students and by representing those views in University-wide committees and Board of Trustees meetings. GSAC will continually strive towards creating a stimulating and nourishing environment for graduate students at the academic, social and philanthropic levels.

College of Education Student Association (COESA)
The College of Education Student Association (COESA) promotes unity of program support in the college and augments personal and professional development for graduate students. COESA represents students in all policy-making activities affecting student interests and provides students studying in the college an opportunity to engage in collegial and social relationships with faculty, peers and experts in the field.

Research Methods and Statistics Student Association (RMSSA)
The RMSSA’s mission is to serve students enrolled in the RMS program at MCE. RMSSA shall:
A. Represent RMS students in all policy-making activities affecting program and student interests.
B. Provide students studying in the RMS program at the Morgridge College of Education (MCE) an opportunity to engage in the collegial and social relationships with faculty, peers, and experts in the field.
C. Encourage and promote professional, intellectual, and social interaction between students and faculty within the RMS program
D. Provide career assistance and mentorship to current RMS students and alumni.
E. Enhance student educational experience through supporting research and conference activities
F. Represent the Research Methods and Statistics program and student on the College of Education Student Association and the Graduate Student Association Council (GSAC).

There shall be two types of membership: Membership shall be through election, where students enrolled in the RMS program at the Morgridge College of Education are voting members and may hold office; Non-voting members: RMS Alumni and faculty are non-voting members and may not hold office.

RMS Faculty
Nicholas J. Cutforth, PhD
Professor
Research Methods and Statistics
Ruffatto Hall 252
303-871-2477
ncutforth@du.edu
Kathy Green, Ph.D.
Professor, Domain Chair
Research Methods and Statistics
Ruffatto Hall 233
303-871-2490
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Ruffato Hall 231
303-871-6681

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Associate Professor
Program Coordinator
Research Methods and Statistics
Ruffatto Hall 232
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duan.zhang@du.edu

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Frontier Hall, Room 344
303-871-3783
creichar@du.edu

Kent Seidel, Ph.D.
Associate Professor
Educational Administration & Policy Studies
Ruffatto Hall 346
303-871-2496
kseidel@du.edu
PART IV: ETHICAL CODES AND PROFESSIONAL STANDARDS

The University Honor Code governs all students and faculty at the University of Denver. In addition, MCE students are expected to adhere to the academic and professional expectations and standards of professional associations. Failure to comply with these expectations may be construed as unprofessional behavior and can result in dismissal from the program.

Part V: PROFESSIONAL ASSOCIATIONS

All RMS students are encouraged to join at least one professional association. Membership in these organizations provides the student with an opportunity to become familiar with, begin networking, and become part of a professional community. The following organizations are suggestions; there are many others for students to consider.

• American Educational Research Association (AERA): also join divisions and SIGs (Special Interest Groups) www.aera.net  
• American Psychological Association (APA) www.apa.org

Part VI: STYLE GUIDE, COMMUNICATION CHANNELS, TECHNOLOGY

APA Requirements
The Morgridge College of Education requires that students use The Publication Manual of the American Psychological Association (currently in its 6th edition) when writing research papers. The APA guidelines set forth rules that ensure clear and consistent presentation of written material. Editorial style concerns uniform use of such elements as:

▪ punctuation and abbreviations
▪ construction of tables
▪ selection of headings
▪ citation of references
▪ presentation of statistics, along with
▪ other elements that are a part of every manuscript

It is highly recommended that all students purchase The Publication Manual of the American Psychological Association to ensure that papers submitted conform to APA guidelines. The DU Bookstore carries the APA Manual, and additional information is available online. http://www.apastyle.org/pubmanual.html

Laptops
It is strongly recommended that students invest in a quality laptop. Our campus offers a quality mobile learning environment, with more than 24,000 Internet connections located across campus. The University of Denver’s wireless network is designed to be a convenient supplement to the wired network for general functions including web browsing, email, and printing to public printers. Wireless access points located in many areas of campus allow suitably configured computers equipped with wireless network cards to make wireless
connections to the Internet. For recommended specs on laptops, visit the DU Bookstore website.

**Computer Labs and Technology Resources**
A computer lab is available for Morgridge College of Education students on the second floor of Ruffatto Hall. Throughout Ruffatto Hall, there are large monitors for use by students working in groups or individually; a VGA cable is needed in order to connect to these monitors.

Computer lab hours vary but normally range from 8:00 a.m. to 9:00 p.m. Monday through Thursday and from 8:00 a.m. to 4:30 p.m. on Fridays. Weekend hours may be available, please check the schedule. Labs are closed on holidays.

**Software Installed in Computer Lab**
The Microsoft Office Suite consisting of Access, Excel, FrontPage, Internet Explorer, PowerPoint, Publisher, and Word is on all lab computers in both buildings. In addition, SPSS, Mozilla, Adobe Acrobat Reader, and Windows Media Player are installed in both labs along with many Morgridge College of Education course-specific software titles. Quantitative Research Methods course software is also available. For questions about specific software titles please call 303-871-2789 for information.

**Technology Support and Services**
The computer lab in Katherine A. Ruffatto Hall is located in Room 210. Generally, hours are Monday through Thursday 8:00 a.m. - 9:00 p.m., Fridays 8:00 a.m. - 4:30 p.m., closed on weekends and holidays. The Penrose Library computer lab has extended evening and weekend hours for your convenience.

**Software Installed in Computer Lab**
Microsoft Office Suite 2007 which includes Access, Excel, FrontPage, Internet Explorer, PowerPoint, Publisher and Word are on all lab computers in the lab. In addition, SPSS, Mozilla, Adobe Acrobat Reader, and Windows Media Player are installed along with many Morgridge College of Education course-specific software titles. For questions about specific software titles, please call 303-871-2789 for information. Instructors requesting installation or purchase of a specific software title should also call to arrange for class-specific software to be purchased and installed.

The technology staff are housed in the Katherine A. Ruffatto building and are available to provide technical help in the computer lab and classrooms Monday through Friday from 8 a.m. to 4:30 p.m. Call 303-871-3222. Students and faculty may also request assistance from the UTS Helpdesk by calling 303-871-4700.

**Student Training**
The University Technology Services (UTS) offers various training and events to accommodate the specific needs of DU students. Their goal is to help students become familiar with various software applications, the University Internet, user login and email use, and course resources.
such as Blackboard. Courses are available free of charge to all students who have a DU ID number. The DU Discoveries program provides setup assistance to entering students.

**Computer and Software Purchases**
Academic discounts are available for all DU students when purchasing a new computer from select retailers. The University has formed alliances with several computer manufacturers. Visit the [Laptops and Learning Page](#) for more information.

DU students may also buy computer software at a substantial educational discount from the DU bookstore. Please visit the [Bookstore web site](#) or visit the Bookstore in the Driscoll Center for information about software titles and pricing.

**Digital Cameras, Camcorders, Transcribers and Laptop Computers**
The Morgridge College of Education provides cameras and transcription machines for students to use in order to complete requirements of various courses. This equipment can be checked out from the Technology Coordinator. There are a limited number of laptop computers which Morgridge College of Education students may also check out for limited time periods. Laptop computers are checked out for no longer than 1 week at a time. Because of the large number of students needing the cameras and transcription machines check out time is limited to 1 or 2 days at a time. Often students check out the cameras, do their recording, and return the camera within 2 or 3 hours so that the equipment is available for other students. In order to check out this equipment, your DU identification number, email, and phone number are required.
VII: RMS Course Descriptions

Please Note: The University of Denver Registrar’s website contains the official and most current course descriptions. Available at:

<table>
<thead>
<tr>
<th>Subj</th>
<th>Crse #</th>
<th>Title</th>
<th>Crdt Hrs</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS</td>
<td>4900</td>
<td>Education Research &amp; Measurement</td>
<td>4</td>
<td>This course is intended for Master's degree students in the College of Education. Quantitative research designs, empirical methods of data collection and interpretation, and measurement issues in research are examined.</td>
</tr>
<tr>
<td>RMS</td>
<td>4910</td>
<td>Introductory Statistics</td>
<td>5</td>
<td>This beginning statistics course examines use and interpretation of statistics in educational and human services research, including descriptive and inferential techniques.</td>
</tr>
<tr>
<td>RMS</td>
<td>4911</td>
<td>Correlation &amp; Regression</td>
<td>4</td>
<td>This course focuses on the study of correlational and multiple regression research designs and their application to educational and social science problems.</td>
</tr>
<tr>
<td>RMS</td>
<td>4912</td>
<td>Analysis of Variance</td>
<td>5</td>
<td>Conceptual and applied analyses of one-way through factorial nested analysis of variance designs and multivariate analysis of variance are presented.</td>
</tr>
<tr>
<td>RMS</td>
<td>4913</td>
<td>Multivariate Analysis</td>
<td>5</td>
<td>Conceptual and applied analyses of common multivariate statistical techniques used in research in social sciences are presented as are assumptions and limitations of techniques and interpretation of results. Prerequisites: RMS 4910.</td>
</tr>
<tr>
<td>RMS</td>
<td>4914</td>
<td>Structural Equation Modeling</td>
<td>5</td>
<td>This course covers major applications of and issues related to covariance structure modeling, specifically confirmatory factor analysis and latent variable path modeling; types of research applications for which covariance structure modeling analyses are appropriate. Prerequisite: course in multiple regression analysis. Recommended prerequisite: background in multivariate analysis, factor analysis and psychometric theory.</td>
</tr>
<tr>
<td>RMS</td>
<td>4915</td>
<td>Hierarchical Linear Modeling</td>
<td>4</td>
<td>This course introduces models that extend multiple regression to analysis of nested data structures common in education and other social sciences. Application of these methods to various forms of multilevel data, including repeated measure (growth trajectory) data is emphasized. Prerequisite: RMS 4952</td>
</tr>
<tr>
<td>RMS</td>
<td>4916</td>
<td>Latent Growth Curve Modeling</td>
<td>4</td>
<td>This course covers advanced issues in longitudinal data analysis using structural equation modeling and hierarchical linear modeling with latent variables. It involves both conceptual development and practical implementation of longitudinal data analysis. This course</td>
</tr>
</tbody>
</table>
is intended to be a hands-on approach to working with
data and addressing research questions that can be best
answered by longitudinal data. The prerequisites are
Structural Equation Modeling (RMS 4912) and Hierarchical
Linear Modeling (RMS 4913).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 4917</td>
<td>Computer Application in Social Science Research</td>
<td>3</td>
<td>This course focuses on use of statistical software and other appropriate software programs in the analysis of quantitative data.</td>
</tr>
<tr>
<td>RMS 4919</td>
<td>Topics in Statistics</td>
<td>1 to 5</td>
<td>Topics vary by quarter, but may include log-linear analysis, factor analysis, or missing data analysis.</td>
</tr>
<tr>
<td>RMS 4920</td>
<td>Educational Measurement</td>
<td>3</td>
<td>This course examines the meaning, characteristics, and processes of educational measurement and evaluation. Development and interpretation of both standardized and informal tests are considered.</td>
</tr>
<tr>
<td>RMS 4921</td>
<td>Psychometric Theory</td>
<td>3</td>
<td>This course examines major psychometric theories (e.g., classical, item response) as related to reliability, generalizability, validity, and item analysis methods.</td>
</tr>
<tr>
<td>RMS 4922</td>
<td>Item Response Theory</td>
<td>3</td>
<td>Theory and methods for the educational and psychological measurement of latent variables using item response theory are covered in this course.</td>
</tr>
<tr>
<td>RMS 4929</td>
<td>Topics in Psychometrics</td>
<td>1 to 3</td>
<td>Topics vary, but include large scale testing, computer applications of item response theory, affective measure construction, generalizability theory, additive conjoint measurement, and standard testing.</td>
</tr>
<tr>
<td>RMS 4930</td>
<td>Empirical Research Methods</td>
<td>3</td>
<td>This course provides in depth study of empirical research methods involved in experimental, quasi-experimental, correlational, and single-subject designs.</td>
</tr>
<tr>
<td>RMS 4931</td>
<td>Survey and Design Analysis</td>
<td>3</td>
<td>Survey techniques, needs assessment, item construction, sampling, maximizing response rates and data analysis; survey construction and data analysis are required.</td>
</tr>
<tr>
<td>RMS 4932</td>
<td>Meta-Analysis Social Sci Res</td>
<td>2</td>
<td>This course examines meta analytic techniques in the social sciences. Included are discussions of review of critical data bases, coverage of all major methods of data collection and analysis, and coverage of how best to present meta analytic findings for publication.</td>
</tr>
<tr>
<td>RMS 4939</td>
<td>Topics in Quantitative Research Methods</td>
<td>1-5</td>
<td>Topics vary, but include minimization as an alternative to randomization, propensity score modeling as an alternative to experimental control, and analysis of data from single-subject designs.</td>
</tr>
<tr>
<td>RMS 4940</td>
<td>St Fnds of Research in So Scs</td>
<td>3</td>
<td>This introductory course on epistemology and research. Includes discussion of identification and development of problems for research; introduction to basic quantitative</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>RMS 4941</td>
<td>Introduction to Qualitative Research</td>
<td>4</td>
<td>This introductory level course introduces students to the philosophical underpinnings, history, and key elements of five qualitative approaches: narrative research, phenomenology, grounded theory, ethnography, and case study.</td>
</tr>
<tr>
<td>RMS 4942</td>
<td>Qualitative Data Collection and Analysis</td>
<td>4</td>
<td>In this intermediate level qualitative research course students will learn about design, purposeful sampling, field work, observational approaches, and interviews, with special attention directed to the skills and competencies needed to gather and analyze high quality data.</td>
</tr>
<tr>
<td>RMS 4943</td>
<td>Computer Applications in Qualitative Research</td>
<td>3</td>
<td>Review of assumptions of qualitative designs, types of qualitative approaches and current data-analysis techniques; computer software to analyze qualitative data.</td>
</tr>
<tr>
<td>RMS 4944</td>
<td>Action Research</td>
<td>3</td>
<td>Definition of action research, whether it improves classroom practice, methods of conducting, strengths and weaknesses; use to improve specific aspects of educational practice, to become more reflective practitioners.</td>
</tr>
<tr>
<td>RMS 4945</td>
<td>Community-Based Research</td>
<td>4</td>
<td>This class will introduce the emerging philosophical and methodological issues that arise when university faculty students collaborate on research with community-based organizations.</td>
</tr>
<tr>
<td>RMS 4946</td>
<td>Ethnographic Research</td>
<td>4</td>
<td>This course introduces exemplary ethnographic studies and consideration of implications for education, and considers the types of questions asked by ethnographers and methods they use, particularly observation and interviewing. Students also undertake a mini-ethnography to consider theory, techniques, and practice of ethnographic inquiry.</td>
</tr>
<tr>
<td>RMS 4947</td>
<td>Arts-Based Research</td>
<td>3</td>
<td>In this course students explore the ground upon which arts-based research is built and become acquainted with salient issues regarding this kind of research. We practice interviewing, observations and a few arts-based practices.</td>
</tr>
<tr>
<td>RMS 4949</td>
<td>Topics in Qualitative Research</td>
<td>1-5</td>
<td>This seminar builds on the content of other qualitative research courses offered in the RMS program and meets the students where they are on their dissertation journey; thus learning opportunities will be tailored to individual needs as far as possible. Assignments will focus on the issues pertinent to the design of dissertation proposals</td>
</tr>
</tbody>
</table>
and writing, including ethical issues and IRB preparation, theoretical/conceptual framework, literature review, methodology, data collection and analysis strategies, and various forms of representation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 4951</td>
<td>Mixed Method Research Design</td>
<td>4</td>
<td>This course is designed as a fundamental exploration of mixed model and mixed method approaches. Students design mixed model and mixed method research studies with a particular emphasis on multi-site and longitudinal designs that are especially suited to educational issues. Students learn analysis approaches that incorporate previously learned quantitative and qualitative skills, and apply these in practice problem examples.</td>
</tr>
<tr>
<td>RMS 4952</td>
<td>Research Ethics</td>
<td>1</td>
<td>This course introduces ethical theory and a selection of current issues in research ethics.</td>
</tr>
<tr>
<td>RMS 4953</td>
<td>Topics in Data Management</td>
<td>1 to 3</td>
<td>This is a preparatory course emphasizing the manipulation and analysis of data in electronic form.</td>
</tr>
<tr>
<td>RMS 4954</td>
<td>Grant Writing</td>
<td>3</td>
<td>This course provides a focused overview of grant writing for educators. It examines the development of reference tools (paper, electronic, and online), websites, structuring, and writing funding requests, community collaboration and partnerships, project budgeting, management, evaluation, sustainability, and reporting activities.</td>
</tr>
<tr>
<td>RMS 4959</td>
<td>Topics in Research Design</td>
<td>1 to 5</td>
<td>Topics vary, but include single subject design issues, minimization as an alternative to randomization, advances in quasi-experimental design.</td>
</tr>
<tr>
<td>RMS 4960</td>
<td>Program Evaluation Theory</td>
<td>3 to 4</td>
<td>This course reviews theories of program evaluation and current trends in evaluation.</td>
</tr>
<tr>
<td>RMS 4961</td>
<td>Program Development &amp; Eval</td>
<td>3</td>
<td>This course focuses on the practice of program development and evaluation in school, business, or community agency settings. Both qualitative and quantitative methods of program evaluation are discussed. Students have the opportunity to focus on evaluation of a specific program.</td>
</tr>
<tr>
<td>RMS 4962</td>
<td>Program Development &amp; Assessment</td>
<td>3</td>
<td>This course focuses on how student affairs administrators conduct student outcomes assessment, evaluate program development, and monitor program and division budgets.</td>
</tr>
<tr>
<td>RMS 4969</td>
<td>Topics in Program Evaluation</td>
<td>1-5</td>
<td>Topics vary, but include advocacy and policy change, assessment in higher education, multi-level evaluation, cost effectiveness analysis, data visualization and reporting, assessment in distance education, and evaluation in the arts and culture.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
</tr>
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</tr>
<tr>
<td>RMS 4980</td>
<td>Practicum in Research</td>
<td>1 to 5</td>
<td>This course provides a supervised experience in design and implementation of an empirical research or evaluation study. Organization of research proposals, completion of human subjects applications, collection, and analysis of data are emphasized. Students are also expected to prepare a written report of their project which is suitable for professional presentation or publication.</td>
</tr>
<tr>
<td>RMS 4981</td>
<td>Community-Based Research Practicum</td>
<td>1 to 5</td>
<td>Students provide community-based research assistance to a community partner (non-profit, school, community based organization, etc). Student researchers are supervised by DU faculty. This course is an excellent opportunity to match the student's research expertise with the real needs of community partners.</td>
</tr>
<tr>
<td>RMS 4991</td>
<td>MA Independent Study</td>
<td>1 to 17</td>
<td>This course allows Masters students in RMS to study a topic area independently in conjunction with a cooperating faculty member.</td>
</tr>
<tr>
<td>RMS 4992</td>
<td>MA Directed Study</td>
<td>1 to 10</td>
<td>This course provides Masters students a supervised experience in systematically studying a topic area of choice or working on a research project of interest.</td>
</tr>
<tr>
<td>RMS 4993</td>
<td>Research - M.A. Thesis</td>
<td>1 to 17</td>
<td>This course is for Masters students in RMS whose program requires completion of a Master's thesis.</td>
</tr>
<tr>
<td>RMS 5991</td>
<td>PhD Independent Study</td>
<td>1 to 17</td>
<td>This course allows Ph.D. students in RMS to study a topic area independently in conjunction with a cooperating faculty member.</td>
</tr>
<tr>
<td>RMS 5992</td>
<td>PhD Directed Study</td>
<td>1 to 10</td>
<td>This course provides doctoral students a supervised experience in systematically studying a topic area of choice or working on a research project of interest.</td>
</tr>
<tr>
<td>RMS 5993</td>
<td>Dissertation Research</td>
<td>1 to 20</td>
<td>This course is for Ph.D. students in RMS who are engaged in completing their doctoral dissertation. 10 minimum required for the degree.</td>
</tr>
</tbody>
</table>
### APPENDIX A: RMS Master’s Course Work Plan (2011-2012)

#### Research Methods and Statistics - MA
**Course Work Plan (Handbook year 2011-2012)**

**Student** ________________________________________________  **ID#** ___________________

**Student Email** __________________________ **Student Advisor** _________________________

**Anticipated Graduation Date:** Quarter ________________  **Year** _______________

<table>
<thead>
<tr>
<th>I. MCE Requirements (3 cr. hrs.)</th>
<th>Course #</th>
<th>Credit Hours</th>
<th>Expected Qtr. of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Measurement (or) Psychometric Theory</td>
<td>RMS 4920 (or) RMS 4921</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. Program Requirements (13 cr. hrs.)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Research Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Survey Design Analysis</td>
<td>RMS 4931</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Empirical Research Methods</td>
<td>RMS 4930</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Research Ethics</td>
<td>RMS 4952</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Meta Analysis in Social Sciences Research</td>
<td>RMS 4932</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Introduction to Qualitative Research</td>
<td>RMS 4941</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

| B. Statistics (9 cr. hrs.)                                     |               |              |                             |
| Introductory Statistics                                         | RMS 4910      | 5            |                             |
| Correlation Regression                                          | RMS 4911 (or) PSYC | 4/5      |                             |

| C. Evaluation (6 cr. hrs.)                                     |               |              |                             |
| Program Evaluation Theory (required)                           | RMS 4960      | 3            |                             |

**Choose at least one of the following:**

- Program Development and Evaluation  CFSP 4363  3
- International Project Analysis  INTS 4333  3
- Cost Benefit Analysis  PPOL 4500  4
- School Admin: Program Dev and Evaluation  ADMN 4820  3
- Program Development and Evaluation  CNP 4730  3
- Program Development and Assessment  HED 4262  3

| D. Practicum (3 cr. hrs. min.)                                 |               |              |                             |
| Practicum in Research                                          | RMS 4980      | 1-5          |                             |

**E. Cognate (Minimum 5 hours)**

<table>
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<tr>
<th>III. Thesis Option (Minimum 10 hours)</th>
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Summary of Degree Requirements

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<th>Credits Required</th>
<th>Credits Transferred in</th>
<th>Credits Completed</th>
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<tr>
<td>Education Requirements</td>
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<td>II. Program Requirements</td>
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<tr>
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<td>E. Cognate</td>
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<td>III. Thesis Option</td>
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Non-Academic Requirements:

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<td>Comprehensive Exam</td>
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<tr>
<td>(Unless selecting the Thesis option)</td>
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Grade Requirement:
A satisfactory quality of achievement with a grade point average of B (3.0) or better is required by the RMS Program in graduate course work counted toward the degree. Credits carrying below a "B-" will not be accepted by the RMS program as meeting degree requirements.

Student’s Signature ____________________________ Date: __________

Advisor’s Signature ____________________________ Date: __________

Note: Degree plan approval is not binding unless it meets the requirements of the Handbook under which the student was accepted. Independent Study and transfers from other institutions require separate written approval.  
Handbook Year: _______ Total Hours 45  Revised 08/05/2011
APPENDIX B: RMS Doctoral Course Work Plan (2011-2012)

Morgridge College of Education
Research Methods and Statistics – Ph.D.
Course Work Plan 2010-2011

Student _______________________________________________    ID# ___________________
Student Email __________________________ Student Advisor _________________________
Anticipated Graduation Date:    Quarter ________________    Year _______________

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<thead>
<tr>
<th>I. MCE Requirements</th>
<th>Course #</th>
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<td>A. Research (17-22 cr. hrs.)</td>
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<tr>
<td>Empirical Research Methods</td>
<td>RMS 4930</td>
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<tr>
<td>Introduction to Qualitative Research</td>
<td>RMS 4941</td>
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<tr>
<td>Dissertation Research</td>
<td>RMS 5995</td>
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<tr>
<td>B. Program Requirements</td>
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<tr>
<td>A. Assessment (2 cr. hrs.)</td>
<td>CFSP 4361</td>
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<td>CFSP Testing and Assessment</td>
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<td>Psychometric Theory</td>
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<td>Item Response Theory</td>
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<td>Meta Analysis in Social Sciences Research</td>
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<td>C. Research Methods (13 cr. hrs.)</td>
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<td>Structural Foundations of Research in Social Sciences</td>
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<td>Program Evaluation Theory</td>
<td>RMS 4960</td>
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<td>Mixed Method Research Design</td>
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<td>Research Ethics</td>
<td>RMS 4952</td>
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<td>Choose at least one of the following:</td>
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<tr>
<td>Topics in Research Design</td>
<td>RMS 4959</td>
<td>1-5</td>
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<tr>
<td>Arts-Based Research</td>
<td>RMS 4947</td>
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<td>Ethnographic Research</td>
<td>RMS 4946</td>
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<td>Survey Design Analysis</td>
<td>RMS 4931</td>
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<td>Single Case Research Design</td>
<td>CFSP 4364</td>
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<td>Community Based Research</td>
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<td>D. Statistics (27 cr. hrs.)</td>
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<tr>
<td>Correlation &amp; Regression</td>
<td>RMS 4911 (or) PSYC 4300</td>
<td>4/5</td>
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<tr>
<td>Analysis of Variance</td>
<td>RMS 4912 (or) PSYC 4330</td>
<td>5/5</td>
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<tr>
<td>Multivariate Analysis</td>
<td>RMS 4913</td>
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Summary of Degree Requirements

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<tr>
<td>C. Research Methods</td>
<td>13</td>
</tr>
<tr>
<td>D. Statistics</td>
<td>27</td>
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<tr>
<td><strong>III. Practicum</strong></td>
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<td><strong>IV. Cognate</strong></td>
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<tr>
<td><strong>Total</strong></td>
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Non-Academic Requirements:

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<thead>
<tr>
<th>Comprehensive Exam</th>
<th>Quarter to Enroll</th>
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**Grade Requirement:**
A satisfactory quality of achievement with a grade point average of B (3.0) or better is required by the RMS Program in graduate course work counted toward the degree. Credits carrying below a "B-" will not be accepted by the RMS program as meeting degree requirements.

Student’s Signature ___________________________ Date: ____________

Advisor’s Signature ___________________________ Date: ____________

Note: Degree plan approval is not binding unless it meets the requirements of the Handbook under which the student was accepted. Independent Study and transfers from other institutions require separate written approval.

Handbook Year: ________ Total Hours 90 Revised 08/05/2011
APPENDIX C: RMS Master’s Student Annual Review Form

Date____________________
Student Name_____________________________________

Your Course Work Advisor’s Name___________________________________

Occupation (if applicable) ___________________________________________

Employment Status ________________________________________________

1. a) Were you admitted on a probational basis? Yes___ No___

b) If “yes”, have the probation conditions been met? Yes_____ No_____ 

c) If “no”, when do you plan to do so? _____________________

2. a) Have you filed your Course Work Plan? Yes_____ No_____

b) Was there any change to your filed Course Work Plan in the past year? 

Yes____ No____ (If “yes” please attach its most recent version).

3. The program requires that students conduct a research project (the research practicum) 

prior to graduation. Have you met your research practicum requirement? 

Yes______ No________ Partial_________

a) If “yes” or “partial,” indicate research activity in which you participated. 

b) If “yes” and the research activity was presented or published, indicate where you 
presented or published the research, date of presentation, title of presentation using APA 
style.

c) If “no,” indicate a plan for completing this requirement.

4. Have you taken your comprehensive examination? Yes______ No______

If “yes,” year and quarter ________________________________

If “no,” when do you plan to take it?________________________

5. Do you plan to do a Master’s thesis? Yes______ No______

a. If “yes”, has your thesis proposal been approved? Yes_____ No_____ 

i. If “yes,” list the Chairperson and the proposed title 

___________________________________________________________ (chair) 

___________________________________________________________ (title)

b. If “no,” do you have a proposal chairperson? Yes_____ No_____

i. If “yes,” list name of chairperson and topic
6. If you have completed your coursework and plan to do a Master's thesis, are you registered for Continuous Enrollment and Thesis credits?
   Yes_____ No_____    N/A _________
   If no, please go to the MCE Office of Admissions and Enrollment Services to register.

7. If you have completed your course work and plan to do a Masters thesis, have you submitted a timeline for completing your thesis? Yes_______ No_______

8. List professional organizations of which you are a member.

9. List all presentations you have made at meetings or conventions of professional associations since entering the program - or that have been accepted for presentation or publication using APA style.

10. List all community engagement activities in which you participated during the year (e.g., program evaluation, volunteer, paid/unpaid consulting).

11. Describe your strengths as a developing research methodologist.

12. Describe areas that you find challenging and/or need to work on.

13. If appropriate list any personal and professional issues that may impact your progress in our program (i.e., job change, family changes, health, etc.)
Professional Work Competency Scale

Instructions: Please rate yourself as candidly as possible on each item using the scale provided and also provide an example or two to support your rating.

1. Initiative – initiates activities when appropriate; doesn’t wait to be asked or told when to begin tasks.
   1 2 3 4 5 6
   Strongly disagree Strongly agree

2. Dependability – follows through on tasks; completes assignments in accordance with stated parameters and/or constraints.
   1 2 3 4 5 6
   Strongly disagree Strongly agree

3. Time management / work organization – organizes work and manages time effectively; completes assignments in a timely manner
   1 2 3 4 5 6
   Strongly disagree Strongly agree

4. Respect for human diversity – exhibits awareness of and sensitivity to racial, cultural, socioeconomic, religious, gender-based, sexual orientation and other human differences; seeks out further understanding and skills needed to work with diverse populations.
   1 2 3 4 5 6
   Strongly disagree Strongly agree

5. Oral communication – express self orally in a clear and organized manner
   1 2 3 4 5 6
   Strongly disagree Strongly agree

6. Written communication – expresses self in writing in a clear and organized manner
   1 2 3 4 5 6
   Strongly disagree Strongly agree
7. Attending/listening skills – listens attentively; attends to important communications

1 2 3 4 5 6
Strongly disagree Strongly agree

8. Interpersonal relations – relates effectively with peer students, faculty, and colleagues

1 2 3 4 5 6
Strongly disagree Strongly agree

9. Adaptability / flexibility – adapts effectively to demands of situation; exhibits flexibility in face of change.

1 2 3 4 5 6
Strongly disagree Strongly agree

10. Ethical responsibility -

1 2 3 4 5 6
Strongly disagree Strongly agree
APPENDIX D: RMS Doctoral Student Annual Review Form

Date____________________
Student Name_____________________________________
Your Course Work Advisor’s Name___________________________________
Occupation (if applicable) ________________________________
Employment Status _________________________________________

1. a) Were you admitted on a probational basis? Yes___ No___ 
   b) If “yes”, have the probation conditions been met? Yes_____ No_____ 
   c) If “no”, when do you plan to do so? _____________________

2. a) Have you filed your Course Work Plan? Yes_____ No_____
   b) Was there any change to your filed Course Work Plan in the past year? 
      Yes____ No____ (If “yes” please attach its most recent version).

3. The program requires that students conduct a pre-dissertation research project (the 
   research practicum). Have you met your pre-dissertation research practicum requirement? 
   Yes_______ No________ Partial_________
   a) If “yes” or “partial,” indicate research activity in which you participated. 
   b) If “yes” and the research activity was presented or published, indicate where you 
      presented or published the research, date of presentation, title of presentation using the 
      APA style.
   c) If “no,” indicate a plan for completing this requirement.

4. Have you taken your comprehensive examination? Yes______ No______ 
   If “yes,” year and quarter__________________________
   If “no,” when do you plan to take it?________________________

5. If you have completed your coursework, are you registered for Continuous Enrollment and 
   Dissertation credits? 
   Yes_____ No_____   N/A _________
   If no, please go to the MCE Office of Admissions and Enrollment Services to register.

6. Has your dissertation proposal been approved? Yes_____ No______
   If “yes,” list the Chairperson and the proposed title 
   ________________________________ (chair)
If “no,” do you have a proposal chairperson?  Yes_____ No______

If “yes,” list name of chairperson and topic

________________________________________________________________ (chair)
________________________________________________________________ (topic)

7. If you have completed your course work, have you submitted a timeline for completing your dissertation? Yes_______ No_______

8. List professional organizations of which you are a member.

9. List all presentations you have made at meetings or conventions of professional associations since entering the program - or that have been accepted for presentation or publication using APA style.

10. List all community engagement activities in which you participated during the year (e.g., program evaluation, volunteer, paid/unpaid consulting).

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12. Describe areas that you find challenging and/or need to work on.

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1. Initiative – initiates activities when appropriate; doesn’t wait to be asked or told when to begin tasks.

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2. Dependability – follows through on tasks; completes assignments in accordance with stated parameters and/or constraints.

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3. Time management / work organization – organizes work and manages time effectively; completes assignments in a timely manner.

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4. Respect for human diversity – exhibits awareness of and sensitivity to racial, cultural, socioeconomic, religious, gender-based, sexual orientation and other human differences; seeks out further understanding and skills needed to work with diverse populations.

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5. Oral communication – express self orally in a clear and organized manner.

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6. Written communication – expresses self in writing in a clear and organized manner

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7. Attending/listening skills – listens attentively; attends to important communications

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8. Interpersonal relations – relates effectively with peer students, faculty, and colleagues

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9. Adaptability / flexibility – adapts effectively to demands of situation; exhibits flexibility in face of change.

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10. Ethical responsibility -

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