531-3 **Principles of Measurement.** Intended to provide theoretical principles of measurement which are applicable to both teaching and research. Part of the course will be devoted to current issues in measurement and to practical applications to these theoretical principles. Prerequisite: QUAN 506.

533-3 **Survey Research Methods.** Overview of survey methods covering topics such as the purpose of survey research methods, the process of survey research, ethical considerations in survey research, questionnaire design and administration, sampling designs, data processing, and reporting of survey research. Students are expected to be familiar with basic descriptive statistics, inferential statistical procedures and principles of instrument construction/development. Prerequisite: QUAN 506 & QUAN 531 or equivalent.

580-2 to 29 (3,3,3,2,3,3,3,2 to 6) **Doctoral Seminar in Quantitative Methods.** A series of advanced seminars on statistics and measurement. Sections a through h may be taken only once each. Section i may be repeated as topics vary. (a) Advanced regression analysis. (b) Factor analysis. (c) Multivariate methods. (d) Nonparametric methods. (e) Evaluation methods. (f) Experimental design. (g) Advanced measurement theory. (h) Computer applications. (i) Selected topics. Prerequisite: QUAN 507.

592-1 to 8 (1 to 6 per semester) **Independent Study and Investigation.** For advanced graduate students. Topics of interest to the individual student are studied under supervision of a program staff member. Special approval needed from the program.

593-1 to 4 **Individual Research.** For advanced graduate students in Quantitative Methods. Formulating, investigating and reporting of research problems in the area of Quantitative Methods. Special approval needed from the program.

600-1 to 32 (1 to 16 per semester) **Dissertation.**

601-1 per semester **Continuing Enrollment.** For those graduate students who have not finished their degree programs and who are in the process of working on their dissertation, thesis, or research paper. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis, or research hours before being eligible to register for this course. Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only.

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**Radio, Television, and Digital Media**

(See Mass Communication and Media Arts for program description)