GRADUATE INTERDISCIPLINARY PROGRAMS

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Graduate Interdisciplinary Programs at Clemson University have emerged in response to the changing face of scholarship and research. Advances in science and technology have altered the ways we perceive scientific research and education. Clemson University recognizes the need for crossing departmental boundaries in offering more integrated approaches to graduate education. Promoting interdisciplinary research and education is one of the ways Clemson University is fostering innovation among its faculty and students. The National Science Foundation has recognized that "many of the challenges and opportunities today and into the next century cross traditional disciplinary boundaries." Clemson University and its Graduate Interdisciplinary Programs embrace this philosophy and provide excellent research and educational facilities to support these programs.

The Master of Fine Arts in Computing (MFAC) at Clemson University is a professional degree program aimed at producing graduates who will be sought by the growing electronic arts industry, particularly by those companies engaged in special effects productions within the entertainment and commercial video and film industries. The program offers a unique blend of instruction from art, computer science, computer engineering, graphic communications, performing arts, philosophy and psychology, together with newly designed courses targeted at specific production techniques.

Requirements for Awarding of a Degree

The degree requires 60 hours, 18-24 of which are devoted to the visual arts studio wherein the student produces a professional-quality demonstration video. Of the remaining 36-42 hours, 18 must come from the core courses, six from the master’s thesis and 12 from free electives or foundations. It is expected that some beginning students may need post baccalaureate work in the fundamentals of computing or visual arts (or both), so foundation courses are offered. A maximum of five hours of foundation courses may be counted toward the degree. The normal course of study requires two years.

2. There are six core courses: Photography (ART 613), Art with the Computer (ART 821), Introduction to Graphical System Design (CP SC 605), Virtual Reality Systems (CP SC 611), Special Effects Production (CP SC 815) and Perception, Cognition and Technology (PSYCH 823).
3. The electives are Twentieth Century Art I (AAH 630), Twentieth Century Art II (AAH 632), Advanced Drawing (ART 605), Advanced Painting (ART 607), Advanced Sculpture (ART 609), Advanced Printing (ART 611), Advanced Modeling Techniques in Computer Graphics (CP SC 805), Computer Animation (CP SC 808), Digital Image Processing (ECE 847), Film Genres (ENGL 650), Film Theory and Criticism (ENGL 651), Visual Communication (ENGL 853), Process Control in Color Reproduction (G C 801), MIDI Applications (MUSIC 604), Aesthetics (PHIL 845), Stage Lighting (THEA 867) and Scene Painting (THEA 697).
4. There are two individual study courses: Visual Arts Studio (ART 860) and Master’s Thesis (ART/CP SC 891). An MFAC supervisory board consisting of five faculty members from art, two from computer science and one from performing arts ministers the program. The degree capitalizes on Clemson’s well-known strengths in computer graphics (virtual reality systems), image processing, photography, art, film and theatrical design.

Admission and Financial Aid

Applicants are required to submit GRE general test results and a portfolio of artistic work that may include CD Roms, videos, slides, etc. Assistantships will be available to qualified applicants, and at least one fellowship will be awarded. Interested domestic students are encouraged to apply by April 15 for fall admission.

## Policy Studies

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Commencing with the fall 2000 semester, Clemson University will offer graduate studies leading to a Ph.D. and a Certificate in Policy Studies. Graduate work in policy studies enables a student to attain a high degree of specialized competence in policy analysis and to secure a mastery of the policy research, emphasizing quantitative and economic skills. Government, industry, public policy "think tanks" and other policy research organizations, nonprofit organizations and universities offer challenging opportunities in policy analysis, issue development, education and related areas for persons with advanced training.

Special emphasis in the graduate program is placed on qualitative, economic and political organization as well as other social science skills in the analysis and development of policy. Fundamental and rigorous quantitative and analytical skills for effective policy analysis are developed through core courses in political economy for public policy, ethics, statistical methods for policy research, demographic projections and spatial analysis, policy analysis and political choice, organizational theory and management, applied economics and a policy analysis workshop. Ph.D. students will also select a policy concentration in agriculture policy, environmental and natural resource policy, rural and economic development policy, and science and technology. Flexibility is also achieved through enrichment, elective, leadership development courses and the selection of a Ph.D. dissertation topic. The program consists of 84-99 credit hours (beyond the bachelor’s degree) of which up to 40 credits may be drawn from master’s degree and other postgraduate work. There is no language requirement for the Ph.D. degree in policy studies.

The graduate program in policy studies will also offer students enrolled in related master’s and doctoral programs the opportunity to gain competencies and understanding of policy analysis. Depending on the students’ background and academic preparation, they may supplement their primary master’s course work with a Certificate in Policy Studies. The Certificate in Policy Studies is designed to equip students with a set of explicit public policy research and analytical skills to augment their preparation in a traditional master’s program. The certificate program involves 15-18 credit hours of course work, depending upon the students’ academic background and preparation.

The graduate faculty in policy studies encourages applications for the Ph.D. in policy studies from recipients of a master’s degree who wish to acquire policy research and analytical skills in economic development, agriculture, natural resource allocation, rural development, small town and community development, tourism development, environmental issues, land use, infrastructure, public finance, growth management, and science and technology. Master’s-level students with similar interests are encouraged to enhance their graduate studies with a Certificate in Policy Studies.

The faculty encourages applications from students who have backgrounds that will facilitate an interdisciplinary course of study. In many cases students may be admitted to full graduate status in the Ph.D. program without prerequisites other than those required of all graduate students.
PO ST 810: Political Economy, 3 cr. (3 and 0)
An exploration of how public policy can be analyzed within a common framework that considers the objectives and constraints imposed on individuals in political and economic situations, the decision rules consistent with these objectives and constraints, and the likely outcomes of various policy objectives. **Prerequisite:** ECON 820 or permission of instructor.

PO ST 822: Policy Analysis and Political Choice, 3 cr. (3 and 0)
Examines opportunities and constraints that exist in political systems; political feasibility and policy strategy assessment. Topics include role of power, ideas, organizational interaction, cognitive processes, interest groups, policy analysis, media and random opportunity in determining policy outcomes. **Prerequisite:** Admission to policy studies program or permission of instructor.

PO ST 842: Ethics and Public Policy, 3 cr. (3 and 0)
Explores the ethical dimensions of policy by examining moral and ethical issues raised by problem solving and decision making; evaluation procedures integrating ethical dimensions into policy assessment. Topics include model codes of ethics for public officials and exploration of comparable standards for privately employed policy professionals. **Prerequisite:** Admission to certificate or Ph.D. in policy studies program or permission of instructor.

PO ST 843: Organization Theory and Public Management, 3 cr. (3 and 0)
Examines the theoretical and analytical foundations for understanding bureaucracies and leadership roles in public management; clarification of the distinctly "public" dimensions and challenges of management. Interdisciplinary in nature, the course draws on business and public administration, social psychology, economics, political science and sociology. **Prerequisite:** Admission to certificate or Ph.D. in policy studies program or permission of instructor.

PO ST 851: Rural Sustainable Development: Evolution of Public Policy, 3 cr. (3 and 0)
Examines the formulation of current national and local public policies that impact rural community development; the constraints and opportunities they provide; interaction among government institutions, decision makers and interest groups; associated influence on rural sustainability. **Prerequisite:** Admission to certificate or Ph.D. in policy studies or permission of instructor.

PO ST 861: Space Policy, 3 cr. (3 and 0)
Space science technology, civilian and military government programs and private-sector activities; case studies of long-term space policy issues impacting remote sensing, communications and manned space stations; origins of programs and evolution of associated policy issues examined from a national and international perspective. **Prerequisite:** Admission to certificate or Ph.D. in policy studies or permission of instructor.

PO ST 893: Internship in Policy Analysis, 3 cr. (3 and 0)
Twelve-week supervised internship with an approved public or private entity focusing on policy analysis. Monthly reports by student and an agency are required. Graded on a pass/fail basis. **Prerequisite:** Two semesters of course work in policy program.

PO ST 904: Policy Analysis Seminar I, 1 cr. (1 and 0)
One-hour seminar module focusing on research methodology with readings and discussion. **Prerequisite:** Three semesters of course work in policy studies program.

PO ST 905: Policy Analysis Seminar II, 1 cr. (1 and 0)
Each module involves student research with articles prepared for a professional audience and presented as part of the seminar series. Ph.D. students will repeat this course for a total of two credits. **Prerequisite:** PO ST 904 and three semesters of course work in policy studies program.

PO ST 991: Doctoral Dissertation Research, 1-18 cr. (0 and 0)
Credit to be arranged.