



College of COMMUNICATION ARTS and SCIENCES

Steve Lacy, Acting DEAN

Communication is the very foundation of society. The College of Communication Arts and Sciences, the first college of its kind, pushes the boundaries of communication research and teaching to improve lives and promote democratic values. We prepare tomorrow's global communicators to solve real problems throughout the world. We produce and share timeless knowledge that transcends the message and the medium by focusing on how humans communicate effectively with whatever tools may be at hand. The College of Communication Arts and Sciences searches for the opportunities and challenges of tomorrow. Our classrooms reach beyond the traditional four walls to embrace the entire world. Working side by side, our students and faculty discover and explore the next communication frontier.

The purposes of the College of Communication Arts and Sciences are:

1. To give its students a clear understanding of the role of communications media in society.
2. To educate its students in greater depth in one or more of the specialized areas within the College.
3. To conduct communications research and creative activities, and to use the results for the benefit of society.
4. To offer all students in the university the opportunity to learn and apply the processes and techniques of communication.

The college includes the departments of Advertising and Public Relations; Communicative Sciences and Disorders; Communication; Telecommunication, Information Studies and Media; and the School of Journalism. Through them, programs are offered leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, and Doctor of Philosophy degrees.

Undergraduate students may complete an additional major. The courses taken by the students in additional major programs are expected to be those which will best provide training to pre-

pare the students to meet their desired career goals. The program of courses taken for a major in the College of Communication Arts and Sciences or in any department of the college will be established through a contract developed by the student and the advisor in the college.

UNDERGRADUATE PROGRAMS

Students meeting the general requirements for admission as freshmen and sophomores to the university are enrolled in the Undergraduate University Division. Such students may declare a major preference in the College of Communication Arts and Sciences and be assigned an advisor from the college.

When students reach junior standing (56 credits), their academic records are evaluated to determine if they meet the requirements for admission into the college as a junior.

Students within the college are strongly encouraged to meet with their academic advisor before they enroll in courses. Students are encouraged to elect courses in the college consistent with the requirements of their majors and consistent with their academic and career goals.

Students who are enrolled in bachelor's degree programs in the college may elect the *Minor in Environmental and Sustainability Studies*. For additional information, refer to the statement on *Minor in Environmental and Sustainability Studies* in the *College of Natural Science* section of this catalog.

Students who are enrolled in bachelor's degree programs in the College of Communication Arts and Sciences may elect a *Specialization in Fiction Film Production*. For additional information, refer to the statement on *Specialization in Fiction Film Production* in the *Department of English* section of this catalog or contact the

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Undergraduate Programs

Department of English or the College of Communication Arts and Sciences.

Students who are enrolled in bachelor's degree programs in The Eli Broad College of Business, the College of Communication Arts and Sciences, and the College of Engineering may elect a *Specialization in Information Technology*. For additional information, refer to the statement on *Specialization in Information Technology* in The Eli Broad College of Business section of this catalog or contact The Eli Broad College of Business.

Admission as a Junior to the College of Communication Arts and Sciences

The number of students admitted as juniors to advertising, journalism, and retailing is limited. For additional information, refer to the statements on the Department of Advertising and Public Relations and the School of Journalism.

The minimal college criteria for admission as a junior to any of the majors in the college are:

1. Completion of at least 56 credits acceptable to the college.
2. An academic record in all work accepted by the college which at least meets the requirements of Academic Standing of Undergraduate Students. Included in this must be a grade–point average of not less than 2.00 in all courses taken in the College of Communication Arts and Sciences.
3. Acceptance as a major in a department or school of the college.

Graduation Requirements

1. The university requirements for the bachelor's degree as described in the *Undergraduate Education* section of this catalog.
2. A minimum of 60 credits in courses given outside the College of Communication Arts and Sciences.
3. The specific requirements of a major program, with no more than the maximum number of credits that is permitted in the major. (Refer to the statements for the academic units in the college that follow.)
4. A minimum grade–point average of 2.00 in courses taken in the student's major.
5. At least 40 credits in courses numbered at the 300 and 400 levels.

Honors Study

The College of Communication Arts and Sciences encourages honors students to develop distinctive undergraduate programs in the fields offered by the several academic units. A member of the faculty is selected to serve as advisor to Honors College students in each major field, and it is the advisor's responsibility to help the student plan a rigorous and balanced program which will also reflect the student's special interests and competencies. Independent study experience is strongly encouraged when relevant to the student's total program.

TEACHER CERTIFICATION OPTIONS

The communicative sciences and disorders disciplinary major and the journalism disciplinary major leading to the Bachelor of Arts degree in the College of Communication Arts and Sciences are available for teacher certification.

A journalism disciplinary minor in the College of Communication Arts and Sciences is available for teacher certification.

Students who elect the communicative sciences and disorders disciplinary major must contact the Department of Communicative Sciences and Disorders.

Students who elect the journalism disciplinary major or the journalism disciplinary minor must contact the School of Journalism.

For additional information, refer to the statements on the audiology and speech sciences disciplinary major and the journalism disciplinary major, and to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

SPECIALIZATION IN DESIGN

The Specialization in Design complements the depth of knowledge students acquire in their respective majors with a multidisciplinary understanding across a range of design areas. Students learn the foundations of design, develop core competencies in their primary area of study, broaden their understanding of how design is incorporated into human communication and the products humans make, learn to use specialized tools, and work in a collaborative interdisciplinary environment.

The Specialization in Design is jointly administered by the College of Communication Arts and Sciences and the Department of Art, Art History, and Design within the College of Arts and Letters. The College of Communication Arts and Sciences is the primary administrative unit. The specialization is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. Students in the Department of Advertising and Public Relations; the Department of Art, Art History, and Design; the School of Journalism; and the Department of Telecommunication, Information Studies and Media may find this specialization of particular interest.

Students who are interested in the specialization are eligible to apply if they have completed the prerequisite courses listed below or have completed one of the prerequisite courses and are enrolled in the second prerequisite course. Students must be in their second semester or later, or equivalent, at Michigan State University. To apply, students must submit an application consistent with the process outlined by either the Department of Art, Art History, and Design or the College of Communication Arts and Sciences. Applications are due by the end of the fifth week of the spring semester and will be reviewed prior to annual enrollment. Academic performance will also be considered and oral interviews may be requested.

With the approval of the department that administers the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree. The student's program of study must be approved by the student's academic advisor for the specialization.

Prerequisite Courses

STA 110	Drawing I	3
STA 113	Color and Design	3

Requirements for the Specialization in Design

The students must complete 14 to 17 credits as specified below.

	CREDITS
1. Complete two of the following courses (5 or 6 credits):	
CAS 112 Story, Sound and Motion	2
STA 114 Three-Dimensional Form	3
STA 360 Graphic Design I: Graphic Form	3
STA 370 Photography I	3
TC 247 Three-Dimensional Modeling and Design	3
2. Complete at least two courses outside of the student's major, selected from the following (6 to 8 credits):	
<i>Game and Interactive Media Design</i>	
TC 346 Web and Mobile Game Design	3
TC 347 Three-Dimensional Computer Animation	3
TC 349 Client-Side Web Development	3
TC 445 Game Design and Development I	3

TC	447	Advanced Three-Dimensional Animation Workshop (W)	3
TC	455	Game Design and Development II	3
<i>Video and Audio</i>			
CAS	201	Audio and Video in Media Settings I	1
CAS	202	Audio and Video in Media Settings II	1
TC	341	Film Style Production for Cinema and Television	3
TC	342	Multi Camera Production for Television	3
TC	343	Basic Audio Production	3
TC	351	Producing for Cinema and Television	3
TC	442	Design of Cinema and Television Projects (W)	3
TC	443	Audio Industry Design and Management (W)	3
<i>Advertising Design</i>			
ADV	322	Copy Writing and Art Direction	3
ADV	324	Introduction to Creative Media	3
ADV	326	Advanced Creative: Media I	3
ADV	354	Interactive Advertising Design	3
ADV	428	Advanced Creative - Media II	3
ADV	486	Integrated Campaigns	4
CAS	110	Creative Processes in Media Settings	2
<i>Visual Journalism</i>			
JRN	203	Visualizing Information	3
JRN	310	Photojournalism	3
JRN	336	Designing for Print and Online	3
JRN	400	The Spartan Online Newsroom	3
JRN	403	TV News	3
JRN	410	Photojournalism and Documentary Photography	3
JRN	436	Creating Online Environments	3
JRN	438	Communicating with Graphics II	3
JRN	483	Photo Communication in Europe	6
<i>Art, Art History, and Design</i>			
HA	486	History of Western Design	4
STA	365	Typography I: Form and Meaning	3
STA	375	Photography II	3
STA	460	Graphic Design II: Visual Communication	4
STA	462	Three-Dimensional Design	4
STA	463	Book Design	4
STA	466	Corporate Imagery	4
STA	467	Time and Motion Design	4
STA	468	Interactive Web Design	4
STA	472	Color Photography	4
STA	474	Studio and Location Lighting	4
STA	475	Photography Workshop	4
STA	491E	Selected Topics – Graphic Design	2 or 3
STA	491F	Selected Topics – Photography	2 or 3
STA	494	Design Center	4
3.	Complete the following course (3 credits):		
STA	499	Interdisciplinary Design: Projects and Contemporary Issues	3

GRADUATE STUDY

The College of Communication Arts and Sciences offers programs leading to the master's degree in each of its academic units and, at the college level, to the Master of Arts degree in Health and Risk Communication. In addition, the college offers programs leading to the Doctor of Philosophy degree in Communicative Sciences and Disorders, in Communication, and in Media and Information Studies. Specific requirements depend upon the major area, the interests of the student, and the recommendations of the major advisor or the guidance committee. For more information, visit www.cas.msu.edu.

Graduate programs are designed to prepare students to communicate effectively the knowledge and research findings in their major fields and to acquire a deeper understanding of communication theory and process as it relates to society.

Students are encouraged to select courses in the college consistent with the requirements of their majors and consistent with their academic and career goals.

Students majoring in other colleges of the university may select courses or cognates in communication arts and sciences.

Practical experience in communication research may be obtained through participation in projects of the various academic units.

Academic standards for admission and retention; degree requirements; and residence, transfer credit and time limit requirements are in accordance with university regulations as shown in the *Graduate Education* section of this catalog.

Students who are enrolled in bachelor's degree programs in advertising, communication, journalism, and media and information may pursue a linked bachelor's-master's degree in health and risk communication.

Students who are enrolled in the master's degree programs in the Department of Communication may elect a Specialization in Food Safety. For additional information, refer to the statement on the specialization in the *College of Veterinary Medicine* section of this catalog.

Students who are enrolled in master's or doctoral degree programs in the college may elect an Interdepartmental Specialization in Cognitive Science. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Cognitive Science* in the *College of Social Science* section of this catalog.

Students who are enrolled in master's or doctoral degree programs in the Department of Communicative Sciences and Disorders may elect a specialization in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specialization in Infancy and Early Childhood* in the *College of Social Science* section of this catalog.

Students who are enrolled in doctoral degree programs in the college may pursue a certification in College Teaching. For additional information, visit www.msu.edu/user/gradschl/teaching.htm.

Master of Arts and Master of Science

In addition to meeting the requirements of the university, students must meet the requirements specified below.

Admission

For admission to regular status, at least a 3.00 average in all work completed in the third and fourth years of undergraduate study is required. Some students with an average of less than 3.00 but not less than 2.50 for those two undergraduate years may be admitted for up to 15 credits of graduate work on provisional status.

Requirements for the Degree

All degree programs require a minimum total of 30 credits with the following exceptions:

- 43 credits are required for the master's degree in audiology and speech sciences;
- 33 credits are required for the master's degree in health communication;
- 33 credits are required for the master's degree in journalism under Plan B (without thesis);
- 34 credits are required for the master's degree in retailing under Plan B (without thesis).

Academic Standards

When a student receives a grade below 3.0 in more than two 400-level or higher courses taken for graduate credit at Michigan State University, the student is automatically withdrawn from the program. A graduate student who has been withdrawn under this regulation is required to wait a minimum of one calendar year from the date of the withdrawal before being eligible to apply for readmission to a graduate program in the College of Communication Arts and Sciences. The student may be readmitted, contingent upon repeating one of the three courses in which a grade below a 3.0 was earned, and earning a 3.0 or better grade in the course. The course to be repeated may be specified by the department. Following readmission, any additional grade below 3.0 in any course numbered 400 or higher will result in permanent dismissal. Courses below the 400 level may also be included under this regulation at the discretion of the individual academic unit. While permission may be granted by the student's academic unit chairperson and the associate dean of the College to repeat a

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Graduate Study

course in which a grade of less than 3.0 has been earned, subsequently earning a grade of 3.0 or higher does not eliminate the first earned grade in the course as one of the two allowed under this regulation.

The student must also have at least a 3.00 average in all courses taken for graduate credit.

Doctor of Philosophy

For students taking the Doctor of Philosophy program in the College of Communication Arts and Sciences, there are four options—Audiology and Speech Sciences, Communication, Media and Information Studies, and Retailing. The Media and Information Studies Ph.D. Program, offered jointly by the Department of Advertising, Public Relations, and Retailing, the School of Journalism, and the Department of Telecommunication, Information Studies and Media, is administered by the College of Communication Arts and Sciences. Further information regarding doctoral study in the College of Communication Arts and Sciences may be obtained from the College office or from the five academic unit offices.

In addition to meeting the requirements of the university, students must meet the requirements specified below.

Admission

For admission to regular status, at least a 3.00 undergraduate and graduate grade-point average normally is required. The student's undergraduate and graduate records must have been established at institutions of high caliber. In some cases a student with an average less than 3.00, but not less than 2.50, may be admitted for one semester on provisional status.

Requirements for the Degree

The total number of course credits in the program and the areas to be covered in the comprehensive examination will be determined by each individual student's guidance committee.

Academic Standards

When a student receives a grade below 3.0 in more than two 400-level or higher courses taken for graduate credit at Michigan State University, or does not have a 3.00 average when 15 credits have been earned, the student is automatically withdrawn from the program. A graduate student who has been withdrawn under this regulation is required to wait a minimum of one calendar year from the date of the withdrawal before being eligible to apply for readmission to a graduate program in the College of Communication Arts and Sciences. The student may be readmitted, contingent upon repeating one of the three courses in which a grade below 3.0 was earned, and earning a 3.0 or better grade in the course. The course to be repeated may be specified by the department. Following readmission, any additional grade below 3.0 in any course numbered 400 or higher will result in permanent dismissal. Courses below the 400 level may also be included under this regulation at the discretion of the individual academic unit. While permission may be granted by the student's academic unit chairperson and the assistant dean of the College to repeat a course in which a grade of less than 3.0 has been earned, subsequently earning a grade of 3.0 or higher does not eliminate the first earned grade in the course as one of the two allowed under this regulation.

The student must have at least a 3.00 average in all courses taken for graduate credit in order to qualify for comprehensive examinations and to undertake the dissertation.

HEALTH and RISK COMMUNICATION

Master of Arts

The Master of Arts degree in Health and Risk Communication is an interdisciplinary program administered by the College of Communication Arts and Sciences in cooperation with the College of Human Medicine. The program prepares students to harness the power of communication principles and risk communication strategies in an effort to promote positive public health outcomes. The program is designed to help students to gain a broad understanding of health and risk communication theory and principles; to gain practice in creating effective health and risk communication programs and interventions; and to learn how to design, use, and critique relevant research. Graduates may pursue careers with government agencies, hospitals, HMOs, insurance companies, nonprofits, the medical trade press, and other health service-related organizations.

Individualized programs of study can be tailored to accommodate a broad range of academic and professional backgrounds. Previously enrolled students have undergraduate degrees in biology, anthropology, communication, public relations, kinesiology, dietetics, pre-medicine, and English as well as other fields. In addition to completing core courses in health communication and epidemiology and an internship with a local, state, national, or international organization, students may choose electives from a broad range of health-related courses offered throughout the university. Students may select courses that are related to broad areas within health communication such as health communication theory and principles, risk communication, research methods, health marketing, designing health and risk messages, policy, sociology of health, science writing, media relations, and other communication-focused areas.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

To be considered for admission to the Master of Arts degree program in health and risk communication, an applicant must submit:

1. a statement of purpose outlining academic and professional goals.
2. two letters of reference from persons who are familiar with the applicant's academic and professional work.
3. the Graduate Record Examination General Test scores.
4. for international applicants only, the Test of English Language Fluency (TOEFL).
5. one transcript from all colleges and universities attended.
6. resume.

Application materials should be received by February 1. Students will be admitted only for the fall semester.

For additional information please visit our Web site at: <http://cas.msu.edu/programs/masters-in-health-and-risk-communication>.

Requirements for the Master of Arts Degree in Health and Risk Communication

The program is available only under Plan B (without thesis), and a total of 33 credits is required for the degree. The student must meet the requirements specified below:

	CREDITS
1. All of the following courses:	8
CAS 825 Mass Communication and Public Health	3
CAS 826 Health Communication for Diverse Populations	3
EPI 810 Introductory Epidemiology.	2
2. The following course:	3
COM 803 Introduction to Quantitative Research Methods	3
3. One of the following courses:	3

ADV 860	Media Relations	3	
JRN 824	Health and Science Writing	3	
4.	The following course:		3
COM 893	Internship	3	
5.	Electives:		14 to 16
Additional credits in courses related to health communication that have been approved by the student's academic advisor.			
6.	Pass a written comprehensive examination during the final semester.		

MEDIA AND INFORMATION STUDIES

Graduate Specialization

The Graduate Specialization in Media and Information Studies, which is administered by the College of Communication Arts and Sciences, provides students the opportunity to pursue advanced studies leading to a teaching or professional research career in the fields of advertising, journalism, public relations or telecommunication, information studies and media.

The graduate specialization is available as an elective to students who are enrolled in master's or doctoral degree programs at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the graduate specialization may also be used to satisfy the requirements for the master's or doctoral degree.

Students who plan to complete the requirements for the graduate specialization should consult the graduate advisor for the specialization in the College of Communication Arts and Sciences. Students will apply to the specialization in writing and provide a plan of study form prior to admission to the specialization.

Requirements for the Graduate Specialization in Media and Information Studies

	CREDITS
Students must complete a minimum of 12 credits from the following:	
1. The following course (3 credits):	
ADV 975 Quantitative Research Design	3
2. One of the following courses (3 credits):	
CAS 992 Doctoral Seminar	3
JRN 921 Media Theory	3
TC 960 Media and Technology	3
3. One of the following courses (3 credits):	
JRN 916 Qualitative Research Methods	3
TC 985 Advanced Quantitative Analysis for Media	3
4. An independent study research project in consultation with the student's academic advisor.	3 to 6
A grade of 3.0 must be obtained in each course to complete the specialization.	

Doctor of Philosophy

The interdepartmental doctoral program in Media and Information Studies is administered by the College of Communication Arts and Sciences through the program Executive Committee and the appointed chairperson of the Executive Committee. The faculty of the program includes the faculties of the three participating departments.

Academic standards for admission and retention; degree requirements; and residence, transfer credit, and time limit requirements are in accordance with the regulations of the university and of the college.

The doctoral program in Media and Information Studies is designed to prepare teachers and scholars who will help new generations make more enlightened use and greater demands of the Media and Communication Systems. The program examines public policy technology, content, consumption, effects, and economics of media and communication systems domestically and internationally.

Development of original, independent scholarship, expertise in research methods, and development of skills as a teacher are central expectations of students in the program.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Students are admitted beginning fall semester. Exceptional candidates may be admitted without a master's degree. Applicants with professional media experience may be given special consideration. Scores on the Graduate Record Examination General Test are required. All application materials are due in the program office by December 10th. Late applications may be considered.

Complete details concerning application may be obtained from the program office in the college or the Web site www.cas.msu.edu.

Guidance Committee

At least two of the three participating departments must be represented on the student's guidance committee.

Requirements for the Doctor of Philosophy Degree in Media and Information Studies

The student must meet the requirements specified below:

	CREDITS
1. Theory. Complete all of the following (9 credits):	
a. The following course (3 credits):	
ADV 900 Theory Building in Media and Information Studies	3
b. Two of the following courses (6 credits):	
ADV 921 Media Theory	3
CAS 992 Doctoral Seminar	3
TC 960 Media and Technology	3
Only one enrollment in a 'theory' designated section of CAS 992 may count towards the Theory requirement.	
2. Research Methods. Complete all of the following (15 credits):	
a. The following course (3 credits):	
TC 975 Quantitative Research Design	3
b. One of the following courses (3 credits):	
JRN 916 Qualitative Research Methods	3
TC 985 Advanced Quantitative Analysis for Media	3
c. Complete 9 credits of electives in research methods as approved by the student's academic advisor.	
3. Concentration. Complete six courses from an area of concentration selected in consultation with the student's guidance committee (18 credits).	
4. Complete 24 credits of CAS 999 Doctoral Dissertation Research.	
5. Prepare and successfully defend the doctoral dissertation.	

DEPARTMENT of ADVERTISING and PUBLIC RELATIONS

Jeffrey I. Richards, Chairperson

The Department of Advertising and Public Relations links the fields of communication and commerce. The focus on global and research-based practices in these industries is unique to Michigan State University. It is the mission of the department to provide leadership to the respective industries through world-class programs that emphasize the importance of research, outreach and teaching excellence. Graduates of these department programs will be prepared to plan, implement and evaluate promotional and retailing strategies. Students will be well-versed in theories from the social sciences, particularly in economics/business, so that they are able to innovatively analyze, diagnose and solve managerial and creative problems. In addition, the undergraduate programs in the department provide the foundation for the Master of

COMMUNICATION ARTS AND SCIENCES
Department of Advertising and Public Relations

Arts degree programs in advertising and in public relations, and for a Doctor of Philosophy degree program in the College of Communication Arts and Sciences.

UNDERGRADUATE PROGRAM

One undergraduate major is offered in this department: advertising. In addition, a Specialization in Public Relations is available.

ADVERTISING

The undergraduate advertising program prepares students for careers in advertising, public relations, and a variety of related fields. Graduates find employment in advertising and public relations agencies, media companies, consumer goods companies, businesses involved in electronic commerce, internet communications, sales promotion, event planning, promotional products, direct marketing, and other industries. Businesses, non-profit institutions, and most government offices can use the skills and knowledge instilled in graduates of the program.

Advertising education entails both arts and sciences. Communication, psychology, and marketing are central to the field, and for some students visual design and writing are equally essential. The field and its study reaches, affects, and draws upon every aspect of society. Students receive a broad liberal arts background, as well as in-depth study of advertising, including consumer psychology and behavior, research, strategic analysis, writing, using mass media as communication vehicles, principles of managing advertising campaigns, along with an essential emphasis in social responsibility and the ethical use of these skills.

Internships and other cooperative educational opportunities are encouraged in the program. Students may also choose to pursue the Specialization in Public Relations and the Specialization in Sales Communication which are particularly relevant for advertising majors. Co-curricular activities include multiple student advertising and public relations clubs, as well as national student competitions. Study abroad programs provide ways for students to gain experience that enhance and reach outside of the classroom, further advancing their employment opportunities upon graduation.

Admission as a Junior

Enrollments in the Advertising program are limited. In addition to the university and college requirements, students must complete Advertising 205, and Psychology 101 with a combined minimum grade–point average of 2.00.

To be considered for admission, upper-division students transferring from other institutions must have completed the required courses for admission as a junior referenced above with a combined minimum grade–point average of 2.00.

For additional information about procedures for admission as a junior, students should contact the Coordinator of Undergraduate Student Affairs, College of Communication Arts and Sciences.

Admission to a Second Bachelor's Degree Program or an Additional Major

The ability of the Advertising program to accommodate students seeking admission to a second bachelor's degree program or an additional major is limited. At a minimum, these students must meet the same requirements as for admission to the advertising major as a junior.

Requirements for the Bachelor of Arts Degree in Advertising

- The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Advertising.
 The University's Tier II writing requirement for the Advertising major is met by completing Advertising 486. That course is referenced in item 3. a. below.
- The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
- The following requirements for the major.

	CREDITS
a. All of the following core courses:	20
ADV 205 Principles of Advertising	3
ADV 330 Advertising Management	3
ADV 342 Account Planning and Research	3
ADV 350 Advertising Media Planning and Strategy	3
ADV 475 Advertising and Society	3
ADV 486 Integrated Campaigns	3
CAS 110 Creative Processes in Media Settings	2
The completion of Advertising 486 satisfies the capstone/synthesis requirement for the Advertising major.	
b. One of the following concentrations (23 or 24 credits):	
Creative	
1. All of the following courses (8 credits):	
CAS 111 The Digital Image	2
CAS 112 Story, Sound and Motion	2
CAS 203 Design in Media Settings	1
CAS 204 Web Design in Media Settings	1
CAS 205 Photography in Media Settings	1
CAS 206 Graphics and Illustration in Media Settings	1
2. All of the following courses (15 credits):	
ADV 324 Introduction to Creative Media	3
ADV 326 Advanced Creative: Media I	3
ADV 354 Interactive Advertising Design	3
ADV 428 Advanced Creative: Media II	3
ADV 450 Portfolio Preparation	3
Management and Media	
1. All of the following courses (9 credits):	
ACC 201 Principles of Financial Accounting	3
or	
ACC 230 Survey of Accounting Concepts	3
ADV 375 Consumer Behavior	3
EC 201 Introduction to Microeconomics	3
or	
EC 202 Introduction to Macroeconomics	3
2. Complete 15 credits from the following:	
ADV 260 Principles of Public Relations	3
ADV 325 Public Relations Techniques and Ethics	3
ADV 334 International Advertising	3
ADV 352 Media Sales	3
ADV 360 Advanced Sales Communication	3
ADV 386 Campaign Competition	3
ADV 413 Issues in Contemporary Advertising	1 to 3
ADV 420 New Media Driver's License	3
ADV 425 Public Relations Strategy	3
ADV 430 Social Marketing: Strategy and Practice	3
ADV 431 Monitoring and Measuring Social Media of Brands	3
ADV 432 Digital Media Planning and Buying	3
ADV 433 Internet Video Promotion Strategy	3
ADV 436 Promotions and Scholarships	3
ADV 456 Interactive Advertising Management	3
ADV 481 Retail Strategy Analysis	3
ADV 492 Special Topics in Advertising	3
ADV 490 Independent Study	1 to 3
or	
ADV 493 Advertising and Public Relations Internship	1 to 3
or	
ADV 494 Practicum in Research/Creative Works and Instruction	1 to 3
A maximum of 3 credits in ADV 490 or 493 or 494 may be used to fulfill this requirement.	
c. All of the following courses:	10
ADV 225 Writing for Public Relations	3
or	
ADV 322 Copywriting and Art Direction	3
MKT 327 Introduction to Marketing	3
PSY 101 Introductory Psychology	4

SPECIALIZATION IN PUBLIC RELATIONS

The Specialization in Public Relations, which is administered by the Department of Advertising and Public Relations is available to students majoring in Advertising, Communication, Environmental Studies and Sustainability, Journalism, James Madison, and Retailing. Limited enrollment may be made available to other majors. With the approval of the department that administers the student's degree program, courses that are used to satisfy the

requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

The specialization is designed to provide a broad understanding of the role of public relations in contemporary society, as well as knowledge and experience in developing public relations materials for use in corporate, governmental, and nonprofit organizational settings. Areas of focus include public relations and society, writing for the media, public relations techniques, research methods, campaigns and cases, public relations strategies, portfolio development, and public relations ethics.

Students are eligible to apply for the specialization if they:

1. are of sophomore standing or higher;
2. have an overall grade-point average of 3.0;
3. have successfully completed Advertising 260;
4. have successfully completed Advertising 225 or Journalism 200.

To apply, students must submit an application stating their interest in the specialization. Applications are due by the tenth week of the semester. If the number of applicants meeting the basic qualifications exceeds the number of spaces available, selection will include evaluation of an interest statement and academic performance in prerequisite classes. Students will be notified of the decision after the completion of the semester.

Requirements for the Specialization in Public Relations

The students must complete the following (14 to 20 credits):

- | | |
|---|---------|
| 1. All of the following courses: | 9 or 10 |
| ADV 325 Public Relations Techniques and Ethics | 3 |
| ADV 425 Public Relations Strategy | 3 |
| COM 300 Methods of Communication Inquiry | 4 |
| Students majoring in Journalism should take Statistics and Probability 200 (3 credits) in place of Communication 300. | |
| 2. One of the following courses: | 3 or 4 |
| ADV 486 Integrated Campaigns | 3 |
| COM 475 Communication Campaign Design and Analysis (W) | 4 |
| 3. Complete 2 to 6 credits from the following: | 2 to 6 |
| ADV 402 Public Relations Topics in Advertising | 1 |
| COM 402 Public Relations Topics in Communication | 1 |
| JRN 402 Public Relations Topics in Journalism | 1 |

LINKED BACHELOR'S-MASTER'S DEGREE IN ADVERTISING

Bachelor of Arts Degree in Advertising *Master of Arts Degree in Advertising*

The department welcomes applications from Michigan State University undergraduate Advertising majors with at least 86 credits. Admission applications must be made prior to the final semester as an Advertising undergraduate. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Advertising and Public Relations and an approved program of study for the master's degree at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, is applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN HEALTH AND RISK COMMUNICATION

Bachelor of Arts Degree in Advertising *Master of Arts Degree in Health and Risk Communication*

The department welcomes applications from Michigan State University undergraduate Advertising majors with at least 86 credits. Admission applications must be made prior to the final semester as a Advertising undergraduate. The number of students admitted to this linked program will be limited by availability. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Advertising and Public Relations or Health and Risk Communication faculty, a resume, and an approved program of study for the master's degree at the time of admission. It is recommended that students complete a special topic in the area of health and risk communication through COM 399 Special Topics. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, is applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN PUBLIC RELATIONS

Bachelor of Arts Degree in Advertising *Master of Arts Degree in Public Relations*

The department welcomes applications from Michigan State University undergraduate Advertising majors with at least 86 credits. Admission applications must be made prior to the final semester as an Advertising undergraduate. Admission to the program requires a minimum undergraduate grade point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Advertising and Public Relations and an approved program of study for the master's degree at the time of admission. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, is applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

GRADUATE STUDY

The Department of Advertising and Public Relations offers professional graduate programs leading to the Master of Arts degrees in both Advertising and Public Relations, and participates in the doctoral program in Media and Information Studies.

Academic standards for admission and retention; degree requirements; and residence, transfer credit, and time limit requirements are in accordance with the regulations of the university and the college.

Master of Arts

The department offers two programs leading to the Master of Arts degree: one in advertising and one in public relations. Both programs provide an intensive professional preparation for careers in these fields. Course work focuses on the general principles and practices underlying all advertising and public relations activities, as well as specialized areas of social media, management, media planning, consumer behavior, social marketing, or research.

Both master's degree programs are available under either Plan A (with thesis) or Plan B (without thesis). Early in their studies, students need to work with their advisors to decide which plan best fits their personal and professional goals.

Requirements for the degree include course work in other academic units within the university. Concepts and analytical techniques derived primarily from the behavioral sciences and business administration are especially important. The student's master's degree program must be approved by the student's academic advisor.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Admission to departmental programs is determined by an evaluation of information regarding the applicant's academic record, goals and motivation, experience, personal references, and other items submitted as indicators of intellectual, creative, and administrative capabilities. The Graduate Record Examination (GRE) General Test is also required. The Graduate Management Admission Test (GMAT) is not required, but scores on this test may be submitted.

To be admitted to either the Master of Arts degree in Advertising or the Master of Arts degree in Public Relations, the applicant must submit:

1. a Graduate School application.
2. an official copy of all transcripts.
3. three letters of recommendation.
4. a statement of purpose outlining academic and professional goals.
5. a personal background statement.
6. Graduate Record Examination (GRE) scores.
7. Test of English as a Foreign Language (TOEFL) scores, if applicable.
8. a resume.

Although evidence other than grades influences the admission decision, the Department uses the following guidelines: students whose grade-point averages for the third and fourth years of undergraduate study are 3.25 or better may be admitted to regular status; students whose grade-point averages are 3.00 to 3.24 may be admitted to provisional status; and students whose grade-point averages are below 3.00 are rarely admitted.

A background in advertising and/or public relations, either from experience or from undergraduate study, is necessary before students can begin graduate study. Students without adequate background will be required to remedy significant deficiencies through collateral course work or individual study.

ADVERTISING

Requirements for the Master of Arts Degree in Advertising

At least 30 credits are required for the degree under either Plan A or Plan B.

	CREDITS
Requirements for Both Plan A and Plan B:	15
1. All of the following courses:	
ADV 823 Consumer Behavior Theories	3
ADV 826 Advertising and Promotion Management	3
ADV 865 Advertising and Society	3
COM 803 Introduction to Quantitative Research Methods	3
MKT 805 Marketing Management	3
Additional Requirements for Plan A:	15
1. The following course (4 to 8 credits):	
ADV 899 Master's Thesis Research	4 to 8
2. Additional credits from the courses listed below, or in other courses, as approved by the student's academic advisor (7 to 11 credits):	
ADV 830 Seminar in Social Marketing	3
ADV 836 Media Innovations	3
ADV 843 Strategic Brand Communication	3
ADV 846 Media Strategy	3
ADV 870 International Advertising	3
ADV 890 Independent Study	1 to 6
ADV 892 Special Topics	3 to 9
ADV 893 Internship	1 to 3
Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts degree in Advertising.	
Additional Requirements for Plan B:	15
1. Fifteen additional credits from the courses listed below, or in other courses, as approved by the student's academic advisor:	
ADV 830 Seminar in Social Marketing	3
ADV 836 Media Innovations	3
ADV 843 Strategic Brand Communication	3
ADV 846 Media Strategy	3
ADV 870 International Advertising	3
ADV 890 Independent Study	1 to 6
ADV 892 Special Topics	3 to 9
ADV 893 Internship	1 to 3
Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts degree in Advertising.	

The final certifying experience is a poster presentation during the semester of graduation.

PUBLIC RELATIONS

Requirements for the Master of Arts Degree in Public Relations

At least 30 credits are required for the master's degree in public relations under either Plan A or Plan B.

	CREDITS
Requirements for Both Plan A and Plan B:	15
1. All of the following courses:	
ADV 850 Public Relations Management	3
ADV 855 Public Relations Theories	3
ADV 860 Media Relations	3
COM 803 Introduction to Quantitative Research Methods	3
MKT 805 Marketing Management	3
Additional Requirements for Plan A:	15
1. The following course (4 to 6):	
ADV 899 Master's Thesis Research	4 to 8
2. Additional credits from the courses listed below, or in other courses, as approved by the student's academic advisor (7 to 11 credits):	
ADV 823 Consumer Behavior Theories	3
ADV 830 Seminar in Social Marketing	3
ADV 836 Media Innovations	3
ADV 843 Strategic Brand Communication	3
ADV 846 Media Strategy	3
ADV 865 Advertising and Society	3
ADV 890 Independent Study	1 to 6

ADV 892 Special Topics	3 to 9
ADV 893 Internship	1 to 3

Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts degree in Public Relations.

Additional Requirements for Plan B: 15

1. Fifteen additional credits, from the courses listed below, or other courses, as approved by the student's academic advisor.

ADV 823 Consumer Behavior Theories	3
ADV 830 Seminar in Social Marketing	3
ADV 836 Media Innovations	3
ADV 843 Strategic Brand Communication	3
ADV 846 Media Strategy	3
ADV 865 Advertising and Society	3
ADV 890 Independent Study	1 to 6
ADV 892 Special Topics	3 to 9
ADV 893 Internship	1 to 3
- Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts degree in Public Relations.

The final certifying examination is a written examination.

CSD 203 Introduction to Communicative Sciences and Disorders	3
CSD 213 Anatomy and Physiology of the Speech and Hearing Mechanisms	3
CSD 232 Descriptive Phonetics	2
CSD 303 Hearing Science	3
CSD 313 Speech Science	3
CSD 333 Oral Language Development	3
CSD 344 Evaluation Procedures in Audiology	4
CSD 364 Evaluation Procedures in Speech–Language Pathology	4
CSD 391 Observation and Analysis of Clinical Practice	1
CSD 444 Audiologic Rehabilitation	4
CSD 463 Intervention Procedures in Speech–Language Pathology	3

The completion of Communicative Sciences and Disorders 443 and 463 satisfies the capstone/synthesis requirement for the Communicative Sciences and Disorders major.

- (2) Complete an additional 6 to 12 elective credits from the Department of Communicative Sciences and Disorders.
- c. The following courses in other departments: 16 or 17
 - (1) One of the following courses (3 credits):

CSE 101 Computing Concepts and Competencies	3
CSE 131 Technical Computing and Problem Solving	3
 - (2) One of the following courses (3 or 4 credits):

LIN 200 Introduction to Language	3
LIN 401 Introduction to Linguistics	4
 - (3) One of the following courses (3 credits):

FCE 211 Child Growth and Development: Conception Through Early Childhood	3
FCE 225 Ecology of Lifespan Human Development in the Family	3
PSY 244 Developmental Psychology: Infancy Through Childhood	3
 - (4) The following course (4 credits):

PSY 101 Introductory Psychology	4
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 - (5) One of the following courses (3 credits):

PSY 295 Data Analysis in Psychological Research	3
STT 200 Statistical Methods	3

d. Only credits in courses graded on the numerical or Pass–No Grade system may be counted toward the requirements for the Communicative Sciences and Disorders major. Communicative Sciences and Disorders students may not enroll in courses required for the major, including courses in other departments, on a Credit–No Credit basis.

Students should meet with their academic advisors concerning the minimum and maximum numbers of elective credits available to them at various stages in their programs.

DEPARTMENT of COMMUNICATIVE SCIENCES and DISORDERS

Rahul Shrivastav, Chairperson

UNDERGRADUATE PROGRAM

The Department of Communicative Sciences and Disorders undergraduate major in communicative sciences and disorders is currently in moratorium and will be discontinued. The department offers several undergraduate courses that prepare students for graduate school in speech-language pathology or audiology. These undergraduate courses span a range of topics critical for transitioning to graduate programs, including those in anatomy and physiology of speech and hearing mechanisms, speech and hearing sciences, as well as clinical assessment and rehabilitation of patients with speech, language and hearing disorders. The department also offers a study-abroad program focused specifically on the practice of speech-language pathology internationally. This six-week program meets in the United Kingdom and Ireland every summer. Undergraduate course work in communicative sciences and disorders is essential for entry to graduate programs in speech-language pathology or audiology; however, does not provide sufficient training to practice professionally. A graduate degree is typically the minimum entry-level qualification for professional practice as a Speech-Language Pathologist or an Audiologist.

Requirements for the Bachelor of Arts Degree in Communicative Sciences and Disorders

1. The University requirements for bachelor's degrees as described in the Undergraduate Education section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Communicative Sciences and Disorders. The University's Tier II writing requirement for the Communicative Sciences and Disorders major is met by completing Communicative Sciences and Disorders 344 and 364. Those courses are referenced in item 3.b.(1) below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
3. The following requirements for the major:

CREDITS

- a. A grade–point average of 2.00 or higher in Communicative Sciences and Disorders 213, 232, 303, 313, and 333.
- b. The following Communicative Sciences and Disorders courses: . . . 39 to 45
 - (1) All of the following courses (33 credits):

TEACHER CERTIFICATION OPTION

The communicative sciences and disorders disciplinary major leading to the Bachelor of Arts degree is available for teacher certification.

In addition to completing the requirements for both the Bachelor of Arts and Master of Arts degrees with majors in communicative sciences and disorders, students with a communicative sciences and disorders disciplinary major must complete:

1. the following additional disciplinary courses: Communicative Sciences and Disorders 433 and 483. Those courses may be used to satisfy the requirement referenced in item 3. b. (2) under the heading **Requirements for the Bachelor of Arts Degree in Communicative Sciences and Disorders**, as well as the requirements for teacher certification.
2. the following pedagogy courses: Teacher Education 150, 302, 501, and 842; Counseling, Educational Psychology and Special Education 240. Those courses, plus Communicative Sciences and Disorders 483, constitute **all** of the pedagogy courses that are required for students with an communicative sciences and disorders disciplinary major; such students are *not* required to complete Teacher Education 401, 402, 502, 801, 802, 803, and 804.

Students who elect the communicative sciences and disorders disciplinary major must contact the Department of Communicative Sciences and Disorders.

For additional information, refer to the statement on **TEACHER CERTIFICATION** in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The Department of Communicative Sciences and Disorders offers two graduate degrees, the Doctor of Philosophy (Ph.D.) and the Master of Arts (M.A.) in Communicative Sciences and Disorders.

The Doctor of Philosophy (Ph.D.) is the terminal degree in the broad areas of speech-language pathology and speech and hearing sciences. This degree program emphasizes research to advance our knowledge about speech, language and hearing processes, its assessment and rehabilitation. The program is tailored to match each individual student's interests and typically requires students to complete advanced course work on several different content areas along with conducting multiple research projects that culminate in a doctoral dissertation. Students are mentored directly by our faculty and are supported through multiple research laboratories and other resources. In order to develop their academic and research skills, students in this program also work collaboratively with experts in other disciplines such as neurology, radiology, cognitive sciences, communication, media and information studies, engineering, education, linguistics or psychology. Students completing the Ph.D. degree generally seek employment as researchers, teachers or in senior administrative or clinical roles in academia, industry, government or non-profit organizations.

The Master of Arts (M.A.) is the entry-level degree for professional practice as a Speech-Language Pathologist in the United States. This program is accredited by the Council of Academic Accreditation of the American Speech-Language and Hearing Association (ASHA). This program consists of academic course work focused on clinical assessment and rehabilitation of patients with speech and language disorders, including those related to articulation and phonology, speech and language development, disorders of fluency and voice, speech and language disorders related to a variety of neurological conditions, dysphagia or swallowing disorders, cognitive deficits, etc. All academic course work is structured to emphasize critical thinking, problem-solving, teamwork and leadership. Classroom training is further supplemented through supervised clinical training in a wide range of patient care facilities including educational (schools), acute care (e.g. hospitals) and long-term care facilities (e.g. nursing homes). Students are expected to accrue a minimum of 400 hours of clinical training before completing this program. Students completing the M.A. degree typically seek employment as a speech-language pathologist.

Students who are enrolled in master's or doctoral degree programs in the Department of Communicative Sciences and Disorders may elect an Interdepartmental Specialization in Cognitive Science. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Cognitive Science in the College of Social Science* section of this catalog. For additional information, contact the Department of Communicative Sciences and Disorders.

Students who are enrolled in master's or doctoral degree programs in the Department of Communicative Sciences and Disorders may elect a Specialization in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood in the College of Social Science* section of this catalog. For additional information, contact the Department of Communicative Sciences and Disorders.

COMMUNICATIVE SCIENCES AND DISORDERS

Master of Arts

The master's degree program in speech-language pathology provides academic and practicum experiences for students preparing for professional careers as speech-language pathologists in settings such as schools, clinics, hospitals, and rehabilitation programs. The master's degree program also provides the basis for further study for students who wish to pursue more advanced degrees. The master's degree program in speech-language pathology has been accredited by the American Speech-Language-Hearing Association. The master's degree program is available under either Plan A (with thesis) or Plan B (without thesis).

Numerous clinical off-campus facilities provide opportunities for students to gain extensive and varied practicum experiences in the evaluation and treatment of communication disorders.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Admission to regular status in the Master of Arts program is contingent upon a bachelor's degree from an approved college or university, an academic grade-point average of 3.0 or better in the last two years of undergraduate study, and approval by the department. Three letters of reference (submitted on forms supplied by the department) attesting to the student's potential for graduate study are required. As part of the admission process, students must also submit a statement of purpose clearly specifying why they wish to earn a master's degree.

Students who hold undergraduate degrees in fields other than communicative sciences and disorders may be accepted in the program and may be required to complete course work in communicative sciences and disorders or other areas to meet American Speech-Language Hearing Association standards required for certification. This may require an additional one or two semesters of course work.

The deadline for the receipt of all application material is January 15th. Students are admitted only in fall semester.

Requirements for the Master of Arts Degree in Communicative Sciences and Disorders

At least 51 credits are required for the master's degree in Communicative Sciences and Disorders under either Plan A or Plan B.

Speech-Language Pathology	51
Requirements for both Plan A and Plan B (45 credits):	
1. All of the following courses (45 credits):	
CSD 803 Research Methods in Communicative Sciences and Disorders	3
CSD 813 Neuroanatomy and Neurophysiology of Speech, Language, and Hearing	3
CSD 815 Acquired Language Disorders	3
CSD 820 Language Assessment and Intervention: Early Stages	3
CSD 821 Language Assessment and Intervention: Later Stages	3
CSD 830 Fluency Disorders	3
CSD 840 Voice Disorders	3
CSD 855 Assessment and Treatment of Dysphagia	3
CSD 860 Articulation and Phonological Disorders	3
CSD 865 Motor Speech Disorders	3
CSD 880 Clinical Proseminar in Communicative Sciences and Disorders	3
CSD 883 Clinical Practicum in Speech—Language Pathology	12
2. In exceptional circumstances, with the approval of the department chairperson, a program of study may be designed with reduced emphasis on clinical education and increased emphasis on other academic areas, which would be reflected in the content of the master's degree final examination or thesis requirements.	

Additional Requirements for Plan A (6 credits):

1. The following course:
CSD 899 Master's Thesis Research. 6
2. Successful completion of an oral thesis defense.

Additional Requirements for Plan B (6 credits):

1. Six additional credits in courses approved by the student's academic advisor.
2. Successful completion of a departmental final examination.

Doctor of Philosophy

The Department of Communicative Sciences and Disorders offers doctoral programs directed toward advanced study of human communication sciences and disorders. Doctoral programs of study are designed to meet the individual needs of students preparing for research, teaching, clinical, and administrative careers.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Admission to the doctoral program in communicative sciences and disorders requires a minimum of a master's degree or the equivalent that focused on human communication sciences and disorders; evidence of high academic achievement; a minimum of three letters of recommendation (submitted on forms supplied by the department) attesting to the student's academic abilities and achievements, and to the student's potential for doctoral-level academic and research success; and approval of the department. Students must also submit a statement of purpose clearly specifying why they wish to pursue a doctoral degree.

Requirements for the Doctor of Philosophy Degree in Communicative Sciences and Disorders

Students must meet the requirements specified below:

1. Complete core courses covering the areas of speech and hearing sciences, and related instrumentation; neuroanatomy and physiology; and psycholinguistics.
2. Complete courses and experiences addressing the following areas of research:
 - a. Statistical analysis of data.
 - b. Research design and methodology.
 - c. Research practicum.
3. Complete an approved major area of study of human communication sciences and disorders that includes courses and experiences which are thematically related.
4. Complete an approved minor or cognate area of study outside the department which is thematically related to and aligned with human communication sciences and disorders.
5. Pass a written and oral comprehensive examination addressing the preceding requirements.
6. Successful completion and oral defense of a dissertation based upon original research that represents a contribution to the scientific knowledge base of human communication sciences and disorders.

DEPARTMENT of COMMUNICATION

James W. Dearing, Chairperson

Learning to understand and use concepts and strategies from communication science in everyday life is inherently interdisciplinary. Psychology, sociology, political science, and management and marketing have all contributed to a unique fusion that is communication science.

UNDERGRADUATE PROGRAM

The goal of the major in communication is to prepare students to synthesize, analyze, and criticize major functions, structures, and processes of communication within interpersonal, organizational, and mediated communication contexts. The major is designed to equip its graduates: (a) to understand the processes involved in human interaction especially as these processes relate to a variety of cultural perspectives, (b) to assess the role and function of new and social media, (c) to identify and critically analyze the major theoretical perspectives in the field of communication, (d) to write and speak clearly using communication concepts, and (e) to develop transferable skills in problem solving in interpersonal interactions, in small group settings, and with diverse populations.

Undergraduate work in communication creates greater awareness of the intricate networks that shape human interaction. Communication study is designed to prepare students to become human relations specialists in industry, the media, and government as well as for graduate study and further professional education. Majors most commonly pursue careers in sales, fund raising, corporate recruiting and training, customer relations, public relations, and government.

Students who transfer from community or junior colleges may transfer a maximum of 10 credits in communication for the major. Such credit will not replace any required course unless it is so evaluated by the department.

Admission to a Second Bachelor's Degree Program or an Additional Major

Ordinarily, students will not be permitted to pursue additional majors and second bachelor's degree majors in the Department of Communication. Students seeking admission to a second bachelor's degree program or an additional major must meet the requirements for admission as a junior to the College of Communication Arts and Sciences.

Requirements for the Bachelor of Arts Degree in Communication

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Communication.
The University's Tier II writing requirement for the Communication major is met by completing any one of the following courses: Communication 425, 440, 475. Those courses are referenced in item 3. b. (3) below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
3. The following requirements for the major:

	CREDITS
a. The following courses outside the Department of Communication:	24 to 30
(1) The following course (3 credits): Philosophy 130.	
(2) One of the following courses (3 credits): Computer Science and Engineering 101 or 131.	

COMMUNICATION ARTS AND SCIENCES
Department of Communication

Students who pass a waiver examination for Computer Science and Engineering 101 will not be required to complete Computer Science and Engineering 101 or 131.

- (3) A required cognate in the behavioral and social sciences that consists of six courses from at least three of the following five departments: Anthropology, Economics, Human Development and Family Studies, Political Science, Psychology, and Sociology (18 to 24 credits).
- b. The following Communication courses: 30 to 45
 - (1) A grade of 2.0 or higher must be achieved in each of these courses: Communication 300 (4 credits), 225 (3 credits), 240 (4 credits), and Communication 275 (3 credits); each of these 4 courses *must* be completed prior to enrolling in any 300–400 level Communication courses.
 - (2) Communication 391 (4 credits), a course emphasizing topics in culture and diversity.
 - (3) One of the following communication specializations (7 credits):
 Interpersonal: Communication 325 and 425.
 Mass Media: Communication 375 and 475.
 Organizational: Communication 340 and 440.
 The completion of the four–hundred level course in any one of the specializations satisfies the capstone/synthesis requirement for the communication major.
 - (4) Communication electives: additional credits in Communication courses as needed to meet the requirement of at least 30, but not more than 45, credits in courses in the major.

Students should meet with their academic advisors concerning the minimum and maximum numbers of elective credits available to them at various stages in their programs.

Students are strongly encouraged to complete an internship approved by the Department of Communication whether for university credit based on academic eligibility standards or on a voluntary, non–credit basis. The department will make every effort to assist communication majors in finding appropriate internship placements.

Students who are enrolled in the communication major are encouraged to structure their programs to include courses in one of the following concentrations: business, telecommunication, mediation and dispute resolution, culture and diversity theory and research, or prelaw. Students who pursue a concentration in business must complete the following courses: Accounting 230, Economics 201 or 202, General Business and Business Law 323, Management 325, and Marketing 327. Students should contact their academic advisors for additional information.

SPECIALIZATION IN SALES COMMUNICATION

The Specialization in Sales Communication provides students with the set of educational experiences, courses, and training they need to become successful sales agents and leaders in a sales-intensive corporate setting. The specialization prepares students to be successful in any sales setting and provides the management skills necessary to expand their careers in a manner consistent with their goals.

The Specialization in Sales Communication is administered by the Department of Communication in the College of Communication Arts and Sciences and is available as an elective to students who are enrolled in bachelor’s degree programs at Michigan State University. Preference will be given to students in the College of Communication Arts and Sciences and The Eli Broad College of Business, excluding The School of Hospitality Business. as space permits, students from other colleges desiring the specialization will be considered on an individual basis. Students who are interested in the specialization must contact the Department of Communication in the College of Communication Arts and Sciences. With the approval of the department or school and college that administers the student’s degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor’s degree. The student’s program of study must be approved by the student’s academic advisor for the specialization.

Admission

To be considered for admission, a student must have been formally admitted to a bachelor’s degree program at Michigan State University. Admission is competitive. Students must be enrolled in or have completed Marketing and Supply Chain Management 313, Personal Selling and Buying Processes, and achieved a passing grade. Other admission criteria include performance on a

sales aptitude test, work experience, and a statement of purpose. Each applicant will be interviewed by a faculty program administrator and each student’s application will be rank ordered.

To apply to the program, students should complete an application after the midterm in Marketing 313 and submit it to the sales communication specialization coordinator in the Department of Communication.

Students must:

- 1. provide their midterm grade in Marketing 313;
- 2. provide their overall grade-point average in their major;
- 3. provide a statement of purpose indicating why they want to enter the specialization;
- 4. provide their score on a sales aptitude test that measures sales, job, and personal skills;
- 5. participate in a personal interview to determine their interest in joining the specialization in which performance in the interview will be assessed.

Requirements for the Specialization in Sales Communication

CREDITS

Students must complete 18 credits from the following courses:

- 1. All of the following courses (13 credits):
 - COM 225 An Introduction to Interpersonal Communication 3
 - COM 360 Advanced Sales Communication 3
 - COM 483 Practicum in Sales Communication 1
 - MSC 313 Personal Selling and Buying Processes 3
 - MSC 383 Sales Management 3
- 2. Two of the following courses (5 to 7 credits):
 - ADV 352 Media Sales 3
 - ADV 375 Consumer Behavior 4
 - COM 315 Information Gathering and Interviewing Theories 3
 - COM 325 Interpersonal Influence and Conflict 3
 - COM 340 Leadership and Group Communication 3
 - MSC 302 Consumer and Organizational Buyer Behavior 3
 - MSC 371 Procurement and Supply Management 3
 - MSC 474 Negotiations 2
- 3. Completion of any combination of the following activities and experiences: sales internship, participation in collegiate level sales presentation competition, active member of a professional student organization, service as an executive officer of a professional student organization, participation in a commercial sales training program, shadow salesperson or manager for a day, interaction with a sales mentor for one semester, or attendance at two meetings of a professional sales organization. Students should see the advisor for the specialization to have their selected activities or experience pre-approved.

SPECIALIZATION IN PUBLIC RELATIONS

Students who are enrolled in the Bachelor of Arts degree program with a major in communication may apply for admission to the Specialization in Public Relations. For additional information, refer to the *Specialization in Public Relations* statement.

LINKED BACHELORS-MASTER’S DEGREE IN COMMUNICATION

Bachelor of Arts Degree in Communication
Master of Arts Degree in Communication

The department welcomes applications from Michigan State University Communication undergraduate students with at least 86 credits. Admission applications must be made prior to the final semester as a Communication undergraduate. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master’s degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Communication, and an approved program of study for the master’s degree at the time of admission. Applicants must have already completed Communication 225, 240, 275, and 300 obtaining a grade of at least 3.0 in each of these courses. The number of Communica-

tion majors admitted into the linked degree program will be limited by availability. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or another postsecondary accredited institution of comparable academic quality. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN HEALTH AND RISK COMMUNICATION

**Bachelor of Arts Degree in Communication
Master of Arts Degree in Health and Risk Communication**

The department welcomes applications from Michigan State University undergraduate Communication majors with at least 86 credits. Admission applications must be made prior to the final semester as a Communication undergraduate. The number of students admitted to this linked program will be limited by availability. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Communication or Health and Risk Communication faculty, a resume, and an approved program of study for the master's degree at the time of admission. It is recommended that students complete a special topic in the area of health and risk communication through COM 399 Special Topics. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

GRADUATE STUDY

The graduate programs in communication take an intensive scholarly approach to the creation, transmission, and reception of messages. Students are admitted from heterogeneous education backgrounds. Therefore the first learning experiences in the program consist of acquiring basic knowledge about communication theory and research, message analysis, and methods of inquiry.

The Department of Communication offers programs leading to the Master of Arts and Doctor of Philosophy degrees. Students who want to earn a master's degree in communication pursue one of two programs of study: a predoctoral program that emphasizes knowledge generation (thesis) or a program that emphasizes knowledge utilization (final examination). The Doctor of Philosophy degree program in Communication is for students who intend to become research scholars.

Academic standards for admission and retention; degree requirements; and residence, transfer credit, and time limit requirements are in accordance with the regulations of the university and the college.

A more comprehensive description of the graduate programs, including standards and requirements for admission and retention, and information about financial assistance, may be obtained by visiting www.comm.msu.edu or by writing to the Office of Graduate Studies, Department of Communication, Communication Arts Building, 404 Wilson Road, Room 466, Michigan State University, East Lansing, MI 48824-1212.

Students who are enrolled in Master of Arts degree programs in the Department of Communication may elect a Specialization in Food Safety. For additional information, refer to the statement on the specialization in the *College of Veterinary Medicine* section of this catalog.

COMMUNICATION

Master of Arts

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Admission is determined by the Master's Affairs Committee from the Department of Communication. Applicants are ranked among all that apply for a given year. Selection criteria place emphasis on grade-point average and course work, Graduate Record Examination General Test scores, Test of English as a Foreign Language scores for international students, letters of recommendation, the student's resume, and the student's academic interests.

To be considered for admission to the Master of Arts degree in Communication, an applicant must submit:

- (1) Graduate School Application
- (2) One official copy of all transcripts.
- (3) Three letters of recommendation.
- (4) A statement of purpose outlining academic and professional goals.
- (5) Graduate Record Examination Scores (GRE) for the General Test.
- (6) Test of English as a Foreign Language Scores (TOEFL), if applicable.
- (7) A resume.

Application materials should be received by April 1. Students will be admitted only for the fall semester. For additional information please visit our Web site at: www.comm.msu.edu/programs/masters.html.

Requirements for the Master of Arts Degree in Communication

The student must complete the requirements for **either** the predoctoral concentration **or** the knowledge utilization concentration as specified below:

	CREDITS
Predoctoral	30
<p>Only Plan A (with thesis) is available to students in the master's degree program in communication who elect the predoctoral concentration. The student must complete at least 30 credits for the degree including:</p>	
<p>1. All of the following courses (13 credits):</p>	
COM 803 Introduction to Quantitative Research Methods . . .	3
COM 820 Communication Theory and Process	3
COM 830 Applied Communication Research II	3
COM 899 Master's Thesis Research	4
<p>2. Nine to eleven additional credits in Communication courses approved by the student's academic advisor.</p>	
<p>3. Six to eight credits in courses outside the Department of Communication approved by the student's academic advisor.</p>	
Knowledge Utilization	30
<p>Only Plan B (without thesis) is available to students in the master's degree program in communication who elect the knowledge utilization</p>	

COMMUNICATION ARTS AND SCIENCES
Department of Communication

concentration. The student must complete at least 30 credits for the degree including:

1. Both of the following courses (6 credits):
COM 803 Introduction to Quantitative Research Methods . . . 3
COM 820 Communication Theory and Process 3
2. Nine to 17 additional credits in Communication courses approved by the student's academic advisor.
3. Seven to 15 credits in courses outside the Department of Communication approved by the student's academic advisor.

The final certifying examination is a written and oral examination that focuses on the student's course work.

Doctor of Philosophy

Communication is a social process by which human beings are linked through the creation, transmission, and reception of messages. The focus of this program is the scholarly analysis of that linkage, with an emphasis on the characteristics of the messages and channels through which linkage occurs.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

February 1 is the deadline for applications for admission and for financial assistance for the succeeding fall semester. Late applications may be considered.

Students are admitted from heterogeneous educational backgrounds.

Requirements for the Doctor of Philosophy Degree in Communication

The student's program is organized around a set of experiences that simulate an interdependent community of communication scholars. These experiences are intended to maximize creative growth and development, and to provide the student with the skills needed to manage an intellectual community.

There are two basic tasks of a community of communication scholars, in each of which the student must demonstrate competence:

1. **Teaching.** The entering student receives training in instructional models and teaching methods in communication education. Each student serves as an apprentice in supervised teaching situations, leading to a demonstration of independent competence in teaching.
2. **Research.** The student is assigned to a task group that explores research questions to which the Department has assigned priority. Each student participates in various phases of on-going research projects. Responsibility for the design and conduct of research is increased as competence develops. Each student must present at least one major report of original research which has been conducted independently.

The first learning experiences in the program consist of the absorption of basic knowledge about communication theory and research, message analysis, and methods of inquiry. During the first year, the new student takes core course work in communication theory and research methods. Much of this work is team-taught by the faculty and engages the full-time curricular energies of the students. Students without background in communication or social science research may be advised to take some preparatory course work.

When the student has mastered this core material, usually by the end of two semesters of residence, the program's focus is directed toward specialization in one or more areas of communication activity. These include, but are not limited to, interpersonal communication, multicultural communication, organizational communication, and persuasion. For such specialization, the student is exposed to lecture courses and doctoral seminars within

the department, and to work in other departments which will supplement the mastery of these content areas.

From this point, the student moves to the final stages of the doctoral program—additional advanced seminars, comprehensive examinations, and/or a preliminary paper, and the ultimate goal of developing and defending a doctoral dissertation.

Graduate Minors in Communication

The Department of Communication does not have a fixed minor which it offers to students in other departments. Rather, specific programs are arranged that best fit individual intellectual needs. Minor work is selected primarily from 800-level courses or the 900-level research methods sequence.

SCHOOL of JOURNALISM

Lucinda Davenport, Director

UNDERGRADUATE PROGRAMS

Critical thinking, excellent writing and superb visual communication are the hallmarks of Michigan State University's School of Journalism graduates.

MSU's School of Journalism is an international leader in shaping and redefining the evolving field of journalism and its students are prepared for the future of the industry. In addition to teaching valuable journalism skills across platforms to propel excellence in professionalism, we are training critical thinkers to become leaders and visionaries in the field.

Students become experts in gathering, organizing and presenting news and information in written or visual formats. They become ethical journalists who are aware of journalism's distinguished history and can successfully navigate and transition their writing and visual communication skills across all platforms of media into the future.

Graduates are highly sought by employers and are successful in the journalism industry for both their intense training and their flexibility in the field. Careers in journalism include a broad range of positions in online media, television stations, newspapers, magazines, public relations, universities and government as writers, reporters, editors, designers, multimedia professionals, photographers, videographers, managers and teachers. Students are prepared to step into a future that has yet to be defined.

Admission

In addition to the university and college requirements, minimal criteria for admission are:

1. Completion of Journalism 108 and 200 with a minimum combined 2.5 grade-point average and a minimum grade of 2.0 in each course. Any applicant who does not meet this requirement may re-apply or contact the school regarding the appeal process.

Transfer students may transfer a maximum of two journalism classes. These classes cannot substitute for core courses unless they are from an accredited journalism program.

For additional information about admission, please contact the Undergraduate Student Affairs Office, College of Communication Arts and Sciences, 1-517-355-1794.

Admission to a Second Bachelor's Degree Program or an Additional Major

Students seeking admission to a second bachelor's degree program or an additional major must meet the same requirements as for admission to the journalism major as a junior.

Requirements for the Bachelor of Arts Degree in Journalism

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Journalism.

The University's Tier II writing requirement for the Journalism major is met by completing Journalism 300. The University's Tier II writing requirement for Journalism majors pursuing teacher certification is met by completing Journalism 409. Those courses are referenced in item 3. a. (2) below.

2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.

3. The following requirements for the major:

- | | |
|---|---------|
| | CREDITS |
| a. The following Journalism courses: | 25 |
| (1) Journalism 108 (3 credits). | |
| (2) Journalism 200 and Journalism 300 with a minimum grade-point average of 2.0 or higher for these two courses in all credits attempted (6 credits). | |
| Students pursuing teacher certification must complete Journalism 108, 200, 203, 310, 336, 400, 409, 430; one topical course chosen from 375, 415, 417, 418, 420, 425, 445, 450, 472, 473, 475, 490, 491; and one elective (30 credits). An average minimum grade-point of 2.0 is required for Journalism 200 in combination with either Journalism 310 or 336 or 409. | |
| (3) One of the following, (a) or (b) (3 or 6 credits): | |
| (a) Journalism 203 (3 credits) | |
| (b) Communication Arts and Sciences 110 (2 credits) | |
| Communication Arts and Sciences 111 (2 credits) | |
| Communication Arts and Sciences 112 (2 credits) | |
| (4) Journalism 430 (3 credits). | |
| (5) Journalism 400 (3 credits). | |
| (6) One Journalism skills course selected from 306, 310, 336, 338, 403, 405, 406, 407, 410, 432, 436, 438, 491 (3 credits). | |
| (7) One Journalism topical course selected from 375, 415, 417, 418, 420, 425, 445, 450, 472, 473, 475, 490, 491 (3 credits). | |
| (8) Journalism 493 (1 credit). | |
| b. The following courses in departments <i>outside</i> the College of Communication Arts and Sciences: | 9 |
| (1) Literature: One course (3 credits). | |
| (2) History: One course (3 credits). | |
| (3) Economics 201 (3 credits). | |
| c. Concentration: Four related/thematic courses outside of the Journalism core, of which no more than two may be Journalism, selected from the following themes: business reporting, editorial reporting, electronic news, environmental reporting, international reporting, journalism history, media marketing, public affairs reporting, sports reporting, visual communication (12 to 16 credits). | |
| d. Journalism majors must complete a minimum of 80 credits in courses outside of the School of Journalism with no fewer than 65 credits in the liberal arts and sciences. | |
| e. Journalism majors must complete a minimum of 25 credits in Journalism, but may take up to 40. | |
| f. Only credits in courses graded on the numerical or Pass-No Pass Grade system may be counted toward the requirements for the Journalism major. Journalism students may not enroll in courses required for the major, including courses in other departments, on a Credit-No Credit basis. | |

The School of Journalism stresses the importance of gaining professional experience while pursuing a degree in journalism. Students who have combined classroom work with internships usually find employment. The school and college coordinates internships for students, provides career counseling, and assists seniors and graduate students with job placement.

Other Programs

Environmental Studies and Agriscience - Communication concentration: see the *College of Agriculture and Natural Resources* section of this catalog for courses in Journalism appropriate to this major.

Engineering Arts: see the *College of Engineering* section of this catalog for courses appropriate to this major.

Suggestions for Program Success

Students should pursue the University's Integrative Studies requirements during their freshman and sophomore years. Students should complete Journalism 108 in the freshman year and Journalism 200, 203 & 300 and Economics 201 before the end of the sophomore year.

In order to ensure enrollment in required courses, majors should plan their sophomore, junior and senior year programs with the advice and assistance of academic advisors and faculty.

Today's journalists should have a broad education in the liberal arts, social sciences, and physical and natural sciences. Many courses in literature, history, economics and foreign languages are open to freshmen and sophomores.

TEACHER CERTIFICATION OPTIONS

The journalism disciplinary major leading to the Bachelor of Arts degree is available for teacher certification.

A journalism disciplinary minor is also available for teacher certification.

Students who elect the journalism disciplinary major or the journalism disciplinary minor must contact the School of Journalism.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

SPECIALIZATION IN PUBLIC RELATIONS

Students who are enrolled in the Bachelor of Arts degree program with a major in journalism may elect a Specialization in Public Relations. For additional information, refer to the *Specialization in Public Relations* statement.

LINKED BACHELOR'S-MASTER'S DEGREE IN HEALTH AND RISK COMMUNICATION

Bachelor of Arts Degree in Journalism *Master of Arts Degree in Health and Risk Communication*

The department welcomes applications from Michigan State University undergraduate Journalism majors with at least 86 credits. Admission applications must be made prior to the final semester as a Journalism undergraduate. The number of students admitted to this linked program will be limited by availability. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the School of Journalism or Health and Risk Communication faculty, a resume, and an approved program of study for the master's degree at the time of admission. It is recommended that students complete a special topic in the area of health and risk communication through COM 399 Special Topics. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN JOURNALISM

Bachelor of Arts Degree in Journalism
Master of Arts Degree in Journalism

The department welcomes applications from Michigan State University undergraduates majoring in Journalism with at least 86 credits. Application for admission must be made prior to the final semester as a Journalism undergraduate major. Admission to the program requires the following: a minimum cumulative grade-point average of 3.5 based on all courses taken at MSU, a statement of goals for the master's degree, a statement of the applicant's background, Graduate Record Examination (GRE) scores, at least two letters of recommendation from faculty in the School of Journalism, and an approved program of study for the master's degree at the time of admission. Applicants must have already completed JRN 108, 200, 203,300, 400, and 430 with a cumulative grade-point average of 3.0 in these courses. The number of Journalism majors admitted into this linked degree program will be limited by availability. Admission to the Linked Bachelor's-Master's program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at Michigan State University. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass/fail courses and internships will not count toward the degree.

GRADUATE STUDY

The School of Journalism offers a Graduate Certificate and a Master of Arts degree in Journalism. Students may concentrate in general or environmental journalism. The School also participates in the doctoral programs in Media and Information Studies and American Studies. Academic standards for admission and retention; degree requirements; and residence, transfer credit, and time limit requirements are in accordance with the regulations of the university and the college.

Master of Arts

The Master of Arts degree program provides students with the exciting opportunity to acquire lifelong skills and knowledge as critical thinkers, excellent writers, and visual communicators in preparation for journalism careers in new media technologies and traditional mass media anywhere in the world. It provides flexibility to adapt to the needs of individuals for advanced study or for those without prior media experience or journalism education. It also encourages students to gain expertise in an area of study outside journalism that coincides with their future goals.

The program appeals to applicants who seek employment in related areas of innovative journalism including mobile or online media, radio and TV news, documentaries, newspapers, magazines, photojournalism and other visual communication, media management, public relations, and journalism for domestic or international markets. It serves applicants who seek fundamental, advanced and specialized courses in journalism and related fields, who wish to pursue doctoral study, who are professional journalists planning to advance in the industry, and those who will seek opportunities in fields such as environmental journalism and teaching.

The Master of Arts Degree program in Journalism is available under either Plan A (with thesis), usually for those who plan a career in research or to pursue doctoral study, or Plan B (without thesis), usually for those who seek a professional career in journalism or a related area. Students work closely with an academic

advisor to successfully complete a program plan for this master's degree.

In addition to the requirements of the University and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

In addition to meeting the established standards required for admission to graduate study in the college, applicants for admission are asked to provide the Journalism Graduate Committee with the following:

1. An official transcript of all undergraduate and graduate work.
2. Three letters of recommendation from persons who are familiar with the applicant's academic and professional work.
3. Scores on the General Test of the Graduate Record Examination (GRE).
4. A 750-word autobiography.
5. A 1000-word statement of goals for the master's degree.

Requirements for the Master of Arts Degree in Journalism

A minimum of 30 credits is required for the master's degree in journalism under either Plan A or Plan B.

CREDITS

Requirements for Plan A (with thesis)

1. All of the following courses (13 to 15 credits):

COM 803	Introduction to Quantitative Research Methods	3
JRN 815	Media, Society and Theory	3
JRN 825	Journalism History and Qualitative Methods	3
JRN 899	Master's Thesis Research	4 to 6
2. Complete 15 to 17 additional credits of elective course work approved by a program plan committee which may include a 9 credit concentration in: Environmental, Science, and Health Journalism; Scholastic Journalism; or International Journalism.

Requirements for Plan B (without thesis)

1. All of the following courses (12 credits):

JRN 800	Multiple Media Reporting I	3
JRN 801	Multiple Media Reporting II	3
JRN 815	Media, Society and Theory	3
JRN 816	Applied Research Methods in Journalism	3

 Journalism 800 may be waived for students with appropriate background.
2. One of the following courses (3 credits):

JRN 808	Journalism Education Visual Topics	3
JRN 821	Social Media News and Information	3
JRN 873	Environment, Science and Health Journalism Seminars	3
JRN 875	Global Affairs Reporting	3
3. One of the following courses (3 credits):

JRN 493	Journalism Professional Field Experience	3
JRN 896	Journalism Professional Project	3
4. Complete 12 additional credits of elective course work approved by a program plan committee which may include a 9 credit concentration in: Environmental, Science, and Health Journalism; Scholastic Journalism; or International Journalism.

Optional Concentrations

The following concentrations will fulfill elective requirements in either Plan A or Plan B.

Environmental, Science and Health Journalism

- All of the following courses (9 credits):
- | | | |
|---------|---|---|
| JRN 872 | Environment, Science and Health Reporting Topics | 3 |
| JRN 873 | Environment, Science and Health Journalism Seminars | 3 |
- Any advisor approved environmental, science, health or risk course.

Journalism Education

- All of the following courses (9 credits):
- | | | |
|---------|--|---|
| JRN 808 | Journalism Education Visual Topics | 3 |
| JRN 809 | Journalism Education Advising Topics | 3 |
- Any advisor approved education course.

International Journalism

Select 9 credits from the following:

JRN 475	International News and Government Regional Dynamics . . .	3
JRN 875	Global Affairs Reporting	3
JRN 887	Journalism Study Abroad Topics	6

Any advisor approved international course.

Doctor of Philosophy

The School of Journalism participates in the interdepartmental doctoral program in Media and Information Studies and in the interdisciplinary doctoral emphasis in American Studies.

The doctoral program in Media and Information Studies is described under the College of Communication Arts and Sciences listing.

A description of the American Studies emphasis may be found under *Interdepartmental and Interdisciplinary Programs* in the *College of Arts and Letters* section of this catalog.

Additional information about graduate study in Journalism and Media and Information Studies may be obtained from the School of Journalism.

Journalism/Law Institute

The Journalism/Law Institute was established in the School of Journalism to study areas of common interest to the mass media, the courts, and the legal profession. The Institute holds seminars and workshops and fosters research and study into First Amendment concerns.

GRADUATE CERTIFICATE IN JOURNALISM

The Graduate Certificate in Journalism is designed to help students understand the fundamental processes of gathering, organizing, presenting and disseminating news and information in various text and visual forms for different news media platforms. Students learn about the newest innovative media technology and develop an understanding of the influence and effects of media in society.

Admission

To be considered for admission into the Graduate Certificate in Journalism, applicants must have completed a bachelor's degree. For additional information, refer to the *Admission* section in the *Graduate Education* section of this catalog.

Requirements for the Graduate Certificate in Journalism

Students must complete all of the following courses (9 credits):		CREDITS
JRN 800	Multiple Media Reporting I	3
JRN 815	Media, Society and Theory	3
JRN 821	Social Media News and Information	3

DEPARTMENT of
 TELECOMMUNICATION,
 INFORMATION STUDIES
 and MEDIA

Johannes M. Bauer, Chairperson

The Department of Telecommunication, Information Studies and Media is a dynamic, interdisciplinary and energetic community of researchers, creators, and teachers united by a passion for all aspects of media and information. One of the leading departments in this vibrant field worldwide and a member of the global iSchools Consortium, it offers an environment of engaged learning and scholarship in which students and faculty design, explore and study the next frontiers of media and information technology, content and applications.

UNDERGRADUATE PROGRAM

The field of Media and Information examines the design, production, management, and effects of the many forms of mediated communication, as well as the organization, implementation, use, and impacts of systems that carry mediated information, entertainment, services, and personal communications.

In this major, students learn both the techniques of media production guided by principles of aesthetics and narrative design, and approaches to media and information management and research guided by social science theories and methods. Among the forms of media addressed through rigorous study of technique, content design, user and audience behavior, principles of marketing and management, and societal impact are film, TV, radio, digital games, social media, mobile communications, and the many forms of Internet-based communication and information exchange. The program prepares undergraduates for a wide range of careers in the global media and information industries, including as producers and directors in the entertainment industries, marketing and sales professionals in the communications industries, and communication and information systems managers in all types of organizations. Students are also well prepared for graduate study in media and information related disciplines.

A Bachelor of Arts or a Bachelor of Science degree is available, as noted in the degree requirements provided below. In addition to a core program, students in the major must complete one of the following concentrations:

TV, Cinema, and Radio Concentration

This concentration focuses on the TV, Cinema, and Radio industries. Students learn preproduction, production, and post-production techniques and design principles involved in audio, video, and projects. Students also gain experience in producing, directing, and managing media projects for broadcast and non-broadcast distribution.

Interactive and Social Media Concentration

This concentration focuses on the interactive media and information technology industries. Students learn theories of human computer interaction, technological foundations and applications, and the social and organizational impacts of information and communication technologies. Students also gain experience in designing, implementing, and managing interactive media projects, including web, games, and emergent forms of interactive and social media.

COMMUNICATION ARTS AND SCIENCES
Department of Telecommunication, Information Studies
and Media

Media Management Concentration

This concentration prepares students for employment and leadership roles in media industries (broadcasting, cable, voice, data, satellite), Internet Service Providers, Internet-based technology companies, technology consulting firms, and media research agencies. Students learn principles of media management, business strategy, research skills, theory, policy, and the economic forces shaping media and information industries.

In addition, the department offers a number of specializations, including: Documentary Studies, Game Design and Development, and Information and Communication Technology for Development. The department participates in other specializations including: Design, Fiction Film Production, and Information Technology.

Admission to a Second Bachelor's Degree Program or an Additional Major

Students seeking admission to a second bachelor's degree program or an additional major in the Department of Telecommunication, Information Studies and Media must meet the requirements for admission as a junior to the College of Communication Arts and Sciences.

MEDIA AND INFORMATION

Students have the opportunity to select the degree program best suited to their interests. The Bachelor of Arts degree in Media and Information and the Bachelor of Science degree in Media and Information uniquely prepare graduates to design high impact media products by focusing on: 1) understanding and harnessing the power of media through interdisciplinary artistic, qualitative, and quantitative methodological approaches and theoretical perspectives, 2) using the design process to inform the creative act and fuel innovation using current and emerging media technologies, 3) using media to address pressing social issues and other meaningful themes, 4) gaining fluency with the tools, practice, and techniques used in the creation of current and emerging mediated experiences, and 5) interpreting and critiquing media in the context of audiences, users, historical precedents, socio-cultural patterns of use, and ethical implications of technologies. Each degree program provides students with the tools and inspiration needed to analyze, evaluate, critique, and manage many forms of media products, services and applications and each provides a solid foundation for anticipating trends in media and communication technologies to prepare students for a field characterized by rapid and continuous change. The social, technical, economic, and organizational bases of media and communication technologies are core topics, preparing students to use media in socially beneficial and economically productive ways. The Bachelor of Arts program requires additional arts and humanities courses. The Bachelor of Science program includes social science as well as higher-level math and computer science requirements.

Requirements for the Bachelor of Arts Degree in Media and Information

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Media and Information.
 The University's Tier II writing requirement for the Media and Information major is met by completing one of the following courses: Telecommunication 442, 443, 447, 450, 452, 458, 462, or 472. Those courses are referenced in item 3. below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
3. The following requirements for the major:

- a. All of the following courses (12 credits):

TC	101	Understanding Media in the Information Age 3
TC	201	Introduction to Media and Communication Technology 3

CREDITS

	TC	301	Bringing Media to Market	3
	TC	401	Topics in Media Impacts on Society	3
b.	At least 3 credits from the following courses (3 credits):			
	ENG	130	Film and Society	4
	ENG	226	Introduction to Creative Writing	3
	IAH	207	Literatures, Cultures and Identities (I)	4
	IAH	208	Music and Culture (I)	4
	IAH	209	Arts, the Visual, and Culture (D)	4
	IAH	241A	Creative Arts and Humanities: Music and Society in the Modern World	4
	IAH	241B	Creative Arts and Humanities: Philosophy in Literature (D)	4
	IAH	241C	Creative Arts and Humanities: Cultural and Artistic Traditions of Europe	4
	IAH	241D	Creative Arts and Humanities: Theatre and Society in the West (I)	4
	IAH	241E	Creative Arts and Humanities: The Creative Process (D)	4
	MUS	175	Understanding Music	2
	MUS	178	Music Theory For Non Music Majors I	2
	MUS	179	Music Theory For Non Music Majors II	3
	THR	101	Acting I	3
	THR	110	Theatrical Play Analysis	3
	THR	350	Plays as Film	3
c.	All of the following courses (6 credits):			
	CAS	110	Creative Process in Media Settings	2
	CAS	111	The Digital Image	2
	CAS	112	Story Sound and Motion	2
d.	At least three of the following courses (3 credits):			
	CAS	201	Audio and Video in Media Settings I	1
	CAS	202	Audio and Video in Media Settings II	1
	CAS	203	Design in Media Settings	1
	CAS	204	Web Design Media Settings	1
	CAS	205	Photography in Media Settings	1
	CAS	206	Graphics and Illustration in Media Settings	1
	CAS	207	Animation in Media Settings	1
	CAS	208	Interactivity in Media Settings	1
e.	One of the following concentrations (12 credits):			
	TV, Cinema, and Radio			
	1. The following course (3 credits):			
	TC	341	Film Style Production for Cinema and Television	3
	2. Two of the following courses (6 credits):			
	TC	247	Three-Dimensional Modeling and Design 3	
	TC	337	Compositing and Special Effects 3	
	TC	342	Multi Camera Production for Television 3	
	TC	343	Basic Audio Production 3	
	TC	347	Three-Dimensional Computer Animation 3	
	TC	348	Advanced Lighting and Camera Techniques . . 3	
	TC	351	Producing for Cinema and Television 3	
	3. One of the following courses (3 credits):			
	TC	442	Design of Cinema and Television Projects (W) 3	
	TC	443	Audio Industry Design and Management (W) . 3	
	TC	447	Advanced Three-Dimensional Animation Workshop (W) 3	
	Interactive and Social Media			
	1. The following course (3 credits):			
	TC	331	Introduction to Interactive Media Design 3	
	2. Two of the following courses (6 credits):			
	TC	247	Three-Dimensional Modeling and Design 3	
	TC	346	Web and Mobile Game Design 3	
	TC	347	Three-Dimensional Computer Animation 3	
	TC	349	Client-Side Web Development 3	
	TC	359	Server-Side Web Development 3	
	TC	361	Information and Communication Interaction Management 3	
	TC	362	Web Administration 3	
	3. One of the following courses (3 credits):			
	TC	450	Human Computer Interaction and User Experience Design (W) 3	
	TC	462	Social Computing (W) 3	
	TC	472	Electronic Commerce (W) 3	
	Media Management			
	1. The following course (3 credits):			
	TC	300	Media Policy and Economics 3	
	2. At least two of the following courses (6 or 7 credits):			
	COM	300	Methods of Communication Inquiry 4	
	TC	331	Introduction to Interactive Media Design 3	
	TC	341	Film Style Production for Cinema and Television 3	
	TC	351	Producing for Cinema and Television 3	
	TC	355	Media Research 3	
	TC	361	Information and Communication Interaction Management 3	
	3. One of the following courses (3 credits):			
	TC	452	Media Strategy (W) 3	
	TC	458	Project Management (W) 3	
f.	Cognate (12 credits):			

The cognate consists of a set of courses approved by the advising office upon admission to the major or attainment of junior standing, whichever is earlier. The cognate must be a minimum of 12 credits and include at least 6 credits from the 300-400 level. The courses in the cognate may be selected from: fine arts, social sci-

ences, biological and physical sciences, social sciences, business, or an approved university specialization or minor administered outside of the college. If business is selected, students must select from the following courses: Economics 201 and 202, Accounting 230, General Business and Business Law 323, Finance 320, Management 325, and Marketing 327. A list of specializations and minors is available from the advising office.

- g. Telecommunication (TC) Electives.
 Electives include courses outside the above requirements. Additional courses can be taken as electives, but not more than 45 total credits may count towards the degree. Internships are encouraged and may qualify for course credit (TC 493).

1. The following course (3 credits):
 TC 300 Media Policy and Economics 3
2. At least two of the following courses (6 or 7 credits):
 COM 300 Methods of Communication Inquiry 4
 TC 331 Introduction to Interactive Media Design 3
 TC 341 Film Style Production for Cinema and Television 3
 TC 351 Producing for Cinema and Television 3
 TC 355 Media Research 3
 TC 361 Information and Communication Interaction Management 3
3. One of the following courses (3 credits):
 TC 452 Media Strategy (W) 3
 TC 458 Project Management (W) 3

- f. Cognate (12 credits):
 The cognate consists of a set of courses approved by the advising office upon admission to the major or attainment of junior standing, whichever is earlier. The cognate must be a minimum of 12 credits and include at least 6 credits from the 300-400 level. The courses in the cognate may be selected from: fine arts, social sciences, biological and physical sciences, social sciences, business, or an approved university specialization or minor administered outside of the college. If business is selected, students must select from the following courses: Economics 201 and 202, Accounting 230, General Business and Business Law 323, Finance 320, Management 325, and Marketing 327. A list of specializations and minors is available from the advising office.

- g. Telecommunication (TC) Electives.
 Electives include courses outside the above requirements. Additional courses can be taken as electives, but not more than 45 total credits may count towards the degree. Internships are encouraged and may qualify for course credit (TC 493).

Requirements for the Bachelor of Science Degree in Media and Information

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Media and Information.
 The University's Tier II writing requirement for the Media and Information major is met by completing one of the following courses: Telecommunication 442, 443, 447, 450, 452, 458, 462, or 472. Those courses are referenced in item 3. below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Science degree.
3. The following requirements for the major:

CREDITS

- a. All of the following courses (12 credits):
 TC 101 Understanding Media in the Information Age 3
 TC 201 Introduction to Media and Communication Technology 3
 TC 301 Bringing Media to Market 3
 TC 401 Topics in Media Impacts on Society 3
- b. At least 3 credits from the following courses (3 credits):
 ANP 201 Socio-cultural Diversity 3
 EC 201 Introduction to Microeconomics 3
 PHL 130 Logic and Reasoning 3
 PLS 200 Introduction to Political Science 4
 PSY 101 Introductory Psychology 4
 SOC 100 Introduction to Sociology 4
- c. Both of the following courses (6 credits):
 CAS 111 The Digital Image 2
 CSE 231 Introduction to Programming I 4
- d. One of the following courses (3 credits):
 MTH 124 Survey of Calculus I 3
 MTH 132 Calculus I 3
- e. At least three of the following courses (3 credits):
 CAS 201 Audio and Video in Media Settings I 1
 CAS 202 Audio and Video in Media Settings II 1
 CAS 203 Design in Media Settings 1
 CAS 204 Web Design Media Settings 1
 CAS 205 Photography in Media Settings 1
 CAS 206 Graphics and Illustration in Media Settings 1
 CAS 207 Animation in Media Settings 1
 CAS 208 Interactivity in Media Settings 1
- f. One of the following concentrations (12 credits):

TV, Cinema, and Radio

1. The following course (3 credits):
 TC 341 Film Style Production for Cinema and Television 3
2. Two of the following courses (6 credits):
 TC 247 Three-Dimensional Modeling and Design 3
 TC 337 Compositing and Special Effects 3
 TC 342 Multi Camera Production for Television 3
 TC 343 Basic Audio Production 3
 TC 347 Three-Dimensional Computer Animation 3
 TC 348 Advanced Lighting and Camera Techniques 3
 TC 351 Producing for Cinema and Television 3
3. One of the following courses (3 credits):
 TC 442 Design of Cinema and Television Projects (W) 3
 TC 443 Audio Industry Design and Management (W) 3
 TC 447 Advanced Three-Dimensional Animation Workshop (W) 3

Interactive and Social Media

1. The following course (3 credits):
 TC 331 Introduction to Interactive Media Design 3
2. Two of the following courses (6 credits):
 TC 247 Three-Dimensional Modeling and Design 3
 TC 346 Web and Mobile Game Design 3
 TC 347 Three-Dimensional Computer Animation 3
 TC 349 Client-Side Web Development 3
 TC 359 Server-Side Web Development 3
 TC 361 Information and Communication Interaction Management 3
 TC 362 Web Administration 3
3. One of the following courses (3 credits):
 TC 450 Human Computer Interaction and User Experience Design (W) 3
 TC 462 Social Computing (W) 3
 TC 472 Electronic Commerce (W) 3

Media Management

MEDIA AND COMMUNICATION TECHNOLOGY

We live in a time of unprecedented proliferation of new media of communication, which are built upon innovations in communication technologies that augment human communication in both anticipated and unanticipated ways. New media do not displace those that came before, but as they appear, the landscape of the media and information industries is altered and communication practices at home, in schools, and in the workplace adapt. The major in media and communication technology recognizes that this continuing evolution stresses the ability of individuals and families, communities and organizations, and societies and nations to make socially beneficial and economically productive use of the plethora of current and new media.

The purpose of this major is to train tomorrow's media and communication technology leaders and to prepare them to make informed decisions about how to apply, manage, and evaluate many forms of media products, applications, and services. In addition to the core program, two concentrations are available to media and communication technology majors, both of which are built upon a fundamental understanding of communication principles as they apply to current and new media, the communication technologies that make current and new services possible, historical development of current and new media, and political and economic forces that shape this development. Students will be required to complete one concentration.

Media Management and Research Concentration

This concentration prepares students for the challenge of evaluating how people use current and new media, how current and new media interact in the media marketplace, and the implications of these issues for media companies and societies. Students learn principles of media management, media business strategy, media research skills, media theory, media policy, and the basic economic forces shaping media industries. Students who select this concentration will be prepared to help tomorrow's broadcasting, cable, telephone, and Internet companies as well as media research agencies make informed decisions about the opportunities being generated by current and new media. The concentration will be noted on the student's transcript.

COMMUNICATION ARTS AND SCIENCES
Department of Telecommunication, Information Studies
and Media

Information and Communication Technologies Concentration

This concentration prepares students to implement and manage new information and communication technologies for use in organizations and communities. It emphasizes hands-on and practical application of web and Internet-based information and communication systems, group communication systems, wireless and other personal communication technologies, e-commerce technologies and other emerging forms of information and communication technologies. Students learn theories of human computer interaction, technological foundations and applications, project management principles, and the social and organizational impact of information and communication technologies. Students who select this concentration will help tomorrow's organizations improve the way their employees communicate with near and distant co-workers, market their products to customers, and work with suppliers and other stakeholders using the web as well as voice and video applications. The concentration will be noted on the student's transcript.

Requirements for the Bachelor of Science Degree in Media and Communication Technology

- The University requirements for bachelor's degrees as described in the Undergraduate Education section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Media and Communication Technology. The University's Tier II writing requirement for the Media and Communication Technology major is met by completing any one of the following courses: Telecommunication 449, 450, 452, 458, 462A, 462B, 462C, 464, 465, 476, or 477. Those courses are referenced in item 3. below.
- The requirements of the College of Communication Arts and Sciences for the Bachelor of Science degree.
- The following requirements for the major:

CREDITS

a.	All of the following courses (12 credits):	
	TC 100 The Information Society	3
	TC 110 Understanding Media	3
	TC 201 Introduction to Media and Communication Technology	3
	TC 210 Media and Communication Policy	3
b.	One of the following concentrations (15 to 21 credits):	
	Media Management and Research	
	1. The following courses (9 credits):	
	TC 300 Economics of Media	3
	TC 356 Marketing Media Content and Services	3
	TC 376 Media Research	3
	2. Three of the following courses. One of the three must be selected from Telecommunication 452, 458, 476, or 477. (10 to 12 credits):	
	TC 339 Digital Games and Society	3
	TC 340 Introduction to Video and Audio	3
	TC 375 Social Impacts of New Media	3
	TC 381 Media Consumer Behavior	3
	TC 452 Media Strategy (W)	4
	TC 458 Project Management (W)	3
	TC 476 Advanced Media Research (W)	4
	TC 477 Global Media (W)	4
	Information and Communication Technologies	
	1. The following courses (6 credits):	
	TC 331 Introduction to Interactive Media Design	3
	TC 361 Information and Communication Technology Management	3
	2. Three of the following courses. One of the three must be selected from Telecommunication 449, 450, 458, 462A, 462B, 462C, or 465. (9 to 12 credits):	
	TC 349 Client-Side Web Development	4
	TC 362 Web Administration	3
	TC 365 Introduction to Network Management	3
	TC 449 Server-Side Web Development	4
	TC 450 Human Computer Interaction and User Experience Design (W)	4
	TC 458 Project Management (W)	4
	TC 462A Wireless Networks and Applications (W)	4
	TC 462B Social Computing (W)	3
	TC 463C Electronic Commerce (W)	3
	TC 464 Network Security	3
	TC 465 Advanced Network Management (W)	3
c.	Telecommunication electives: additional credits in telecommunication courses as needed to meet the requirement of at least 30, but not more than 52, credits in courses in the major. Not more than 12 credits in Telecommunication independent study and internship courses combined, and not more than 7 credits in either telecommunication independent study or internship	

courses, may be counted toward the requirements for the Media and Communication Technology major.

- d. The following courses outside the Department of Telecommunication, Information Studies and Media (18 to 30):

1.	One of the following courses (0 to 4 credits):	
	CSE 101 Computing Concepts and Competencies	3
	CSE 131 Technical Computing and Problem Solving	3
	CSE 231 Introduction to Programming I	4
	Students who pass a waiver examination for Computer Science and Engineering 101 will not be required to complete Computer Science and Engineering 101 or 131 or 231.	
2.	One of the following courses (3 or 4 credits):	
	EC 201 Introduction to Microeconomics	3
	PSY 101 Introductory Psychology	4
3.	One of the following courses (3 or 4 credits):	
	ADV 205 Principles of Advertising	4
	ADV 260 Principles of Public Relations	3
	COM 100 Human Communication	3
	COM 225 An Introduction to Interpersonal Communication	3
	COM 275 Effects of Mass Communication	3
	JRN 108 Introduction to Mass Media	3
	RET 261 Introduction to Retailing	3
4.	A cognate selected from one of the following: the arts, biological and physical sciences, social sciences, business, or an approved university specialization. A list of appropriate cognates is available from the advising office. If business is selected, students must select from the following courses: Economics 201 and 202, Accounting 230, General Business and Business Law 323, Finance 320, Management 325, and Marketing and Supply Chain Management 313 and 327. A list of appropriate departments and courses is available from the advising office.	

Each cognate must:

- be a minimum of 18 credits
- include three courses at the 300-400 level
- be approved upon admission to the major or attainment of junior standing, whichever is earlier.

Only credits in courses graded on the numerical or Pass–No Grade system may be counted toward the requirements for the Media and Communication Technology major. Media and Communication Technology major students may not enroll in courses required for the major, including courses in other departments, on a Credit–No Credit basis.

Students should meet with their academic advisors concerning the minimum and maximum numbers of elective credits available to them at various stages in their programs.

MEDIA ARTS AND TECHNOLOGY

Media amplify our potential to change the world, extending our influence through time and space. Communication tools offer ever-expanding capabilities to create and deliver compelling experiences to engage individuals, communities, and societies. Media industries continue their explosive growth and evolution as emergent communication technologies permeate every part of modern life. Both economically and in terms of social influence, the media industries are among the largest and strongest industries in the world.

The Bachelor of Arts degree in Media Arts and Technology in the Department of Telecommunication, Information Studies and Media prepares students for jobs in traditional media (television, radio, and cinema) and in newer media (games, web and interactive media). This major prepares students to understand the blending, convergence and hybridization of technologies and disciplines and their release of new and modified media forms and potential. Practitioners must consistently research and revise their practices to adapt and benefit from change in the media landscape.

The Media Arts and Technology degree program uniquely prepares students to design high impact media products by focusing on: (1) understanding and harnessing the power of media through interdisciplinary, qualitative, and quantitative methodological approaches and theoretical perspectives; (2) using the design process to inform the creative production and fuel innovation using current and emerging media technologies; (3) using media to address pressing social issues and other meaningful themes; (4) becoming fluent with the tools, practice, and technique used in the creation of current and emerging mediated experiences; and (5) interpreting and critiquing of media in the context of audi-

ences, users, historical precedents, socio-cultural patterns of use, and ethical implications of technologies.

In addition to the core program, students in the media arts and technology major must complete one of the following concentrations:

TV, Cinema, and Radio Concentration

This concentration focuses on the knowledge, skills, and attitudes necessary to succeed within the TV, Cinema, and Radio industries. Students learn preproduction, production, and post-production techniques and design principles involved in audio and video projects. Students also gain experience in producing, directing, and managing media projects for broadcast and non-broadcast distribution. The concentration will be noted on the student's transcript.

Games, Web, and Interactive Media Concentration

This concentration focuses on the knowledge, skills, and attitudes necessary to succeed within the interactive media industries. Students learn pre-production, production, and post-production techniques and design principles involved in interactive media projects, including games, web, and emergent forms of interactive media. Students also gain experience in various aspects of managing interactive media projects. The concentration will be noted on the student's transcript.

Requirements for the Bachelor of Arts Degree in Media Arts and Technology

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Media Arts and Technology. The University's Tier II writing requirement for the Media Arts and Technology major is met by completing any one of the following courses: Telecommunication 442, 443, 445, 446, 447, 449, 450, or 455. Those courses are referenced in item 3. below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
3. The following requirements for the major:

CREDITS

- a. All of the following courses (12 credits):

TC	100	The Information Society	3
TC	110	Understanding Media	3
TC	242	The Digital Image	3
TC	243	Story, Sound and Motion	3

- b. One of the following concentrations (13 to 15 credits):

TV, Cinema, and Radio

 1. The following course (3 credits):

TC	340	Introduction to Video and Audio	3
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 2. Three of the following courses. One of the three must be selected from Telecommunication 442, 443, or 447. (10 to 12 credits):

TC	247	Three-Dimensional Design of the Virtual Form	3
TC	341	Film Style Production for Cinema and Television	4
TC	342	Multi Camera Production for Television	4
TC	343	Basic Audio Production	4
TC	347	Three-Dimensional Computer Animation	4
TC	351	Producing for Cinema and Television	3
TC	437	Video Compositing and Special Effects	4
TC	442	Design of Cinema and Television Projects (W)	4
TC	443	Audio Industry Design and Management (W)	4
TC	447	Advanced Three-Dimensional Animation Workshop (W)	4

Games, Web, and Interactive Media

1. The following course (3 credits):

TC	331	Introduction to Interactive Media Design	3
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2. Three of the following courses. One of the three must be selected from Telecommunication 445, 446, 447, 449, 450, or 455. (11 or 12 credits):

TC	247	Three-Dimensional Design of the Virtual Form	3
TC	346	Web-based Interactive Media	4
TC	347	Three-Dimensional Computer Animation	4
TC	349	Client Side Web Development	4
TC	437	Video Compositing and Special Effects	4
TC	445	Digital Game Design (W)	4
TC	446	Advanced Interactive Media Workshop (W)	4
TC	447	Advanced Three-Dimensional Animation Workshop (W)	4

- | | | | | |
|--|----|-----|---|---|
| | TC | 449 | Server-Side Web Development (W) | 4 |
| | TC | 450 | Human Computer Interaction and User Experience Design (W) | 4 |
| | TC | 455 | 3D Game and Simulation Design (W) | 4 |
- c. Telecommunication electives: additional credits in telecommunication courses as needed to meet the requirement of at least 30, but not more than 52, credits in courses in the major. Not more than 12 credits in Telecommunication independent study and internship courses combined, and not more than 7 credits in either telecommunication independent study or internship courses, may be counted toward the requirements for the Media Arts and Technology major.
 - d. The following courses outside the Department of Telecommunication, Information Studies and Media (18 to 30):
 1. One of the following courses (0 to 4 credits):

	CSE	101	Computing Concepts and Competencies	3
	CSE	131	Technical Computing and Problem Solving	3
	CSE	231	Introduction to Programming I	4

 Students who pass a waiver examination for Computer Science and Engineering 101 will not be required to complete Computer Science and Engineering 101 or 131 or 231.
 2. One of the following courses (3 or 4 credits):

	PHL	130	Logic and Reasoning	3
	PSY	101	Introductory Psychology	4
	SOC	100	Introduction to Sociology	4
 3. One of the following courses (3 or 4 credits):

	ADV	205	Principles of Advertising	4
	ADV	260	Principles of Public Relations	3
	COM	100	Human Communication	3
	COM	225	An Introduction to Interpersonal Communication	3
	COM	275	Effects of Mass Communication	3
	JRN	108	Introduction to Mass Media	3
	RET	261	Introduction to Retailing	3
 4. A cognate selected from one of the following: the arts, biological and physical sciences, social sciences, business, or an approved university specialization. A list of appropriate cognates is available from the advising office. If business is selected, students must select from the following courses: Economics 201 and 202, Accounting 230, General Business and Business Law 323, Finance 320, Management 325, and Marketing and Supply Chain Management 313 and 327. A list of appropriate departments and courses is available from the advising office.

Each cognate must:

 - a. be a minimum of 18 credits
 - b. include three courses at the 300-400 level
 - c. be approved upon admission to the major or attainment of junior standing, whichever is earlier.

Only credits in courses graded on the numerical or Pass–No Grade system may be counted toward the requirements for the Media and Communication Technology major. Media and Communication Technology major students may not enroll in courses required for the major, including courses in other departments, on a Credit–No Credit basis.

Students should meet with their academic advisors concerning the minimum and maximum numbers of elective credits available to them at various stages in their programs.

SPECIALIZATION IN DOCUMENTARY STUDIES

The Specialization in Documentary Studies introduces undergraduates to the history, theory, and production of documentary forms and modes of expression. Documentary studies focuses on issues of media, representation, and reality. It engages directly with the fundamental understanding of how the world is presented, represented, distorted, structured, and shaped. Interpretation and representation of reality constitutes a central axis of inquiry and debate. By integrating production and analysis, students in this specialization produce theoretically informed work and develop a cutting-edge understanding of the challenges inherent in representing reality.

The Specialization in Documentary Studies is jointly administered by the Department of Telecommunication, Information Studies and Media within the College of Communication Arts and Sciences and the College of Arts and Letters. The Department of Telecommunication, Information Studies and Media is the primary administrative unit. The specialization is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. Students in the Department of English; the School of Journalism; the Department of Telecommunication, Information Studies and Media; and the Department of Writing, Rhetoric, and American Cultures may find this specialization of particular interest.

COMMUNICATION ARTS AND SCIENCES
Department of Telecommunication, Information Studies
and Media

Students who are interested in the specialization are eligible to apply if they are in good academic standing. Students will apply for the specialization in the spring of their sophomore year by submitting an application available in the advising offices of the Department of Telecommunication, Information Studies and Media and the College of Arts and Letters. Applications will be reviewed prior to annual enrollment.

With the approval of the department that administers the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree. The student's program of study must be approved by the student's academic advisor for the specialization.

Requirements for the Specialization in Documentary Studies

The student must complete at least 14 credits from the following:

	CREDITS
1. The following course (3 credits):	
TC 233 Documentary Technologies and Problems of Reality-Based Arts	3
2. One of the following courses (3 or 4 credits):	
ENG 230 Introduction to Film	4
ENG 330 Classical Film and Media Theory	3
ENG 331 Contemporary Film and Media Theory	3
ENG 332 Historical Approaches to Film	3
ENG 333 Studies in Film Genres (D)	3
JRN 445 Images and Messages	3
JRN 472 Special Topics Laboratory in Environmental Reporting ..	3
3. Complete 5 to 7 credits from one of the following areas:	
Audio	
TC 343 Basic Audio Production	3
TC 443 Audio Industry Design and Management (W)	3
Broadcast News	
JRN 306 Introduction to Radio and TV News	3
JRN 403 TV News	3
Digital Video	
One of the following, either (1) or (2):	
(1) CAS 201 Audio and Video in Media Settings I	1
CAS 202 Audio and Video in Media Settings II	1
TC 341 Film Style Production for Cinema and Television ...	3
(2) TC 391 Special Topics	6
Telecommunication 391 must contain content specific to documentary studies to meet this requirement. Students should contact the advisor for the specialization.	
Feature Writing	
JRN 300 Writing and Reporting News (W)	3
JRN 432 Feature Writing and Long-Form Storytelling	3
Multimedia	
WRA 210 Introduction to Web Authoring	3
WRA 417 Multimedia Writing	4
Photography	
One of the following, either (1) or (2):	
(1) JRN 310 Photojournalism	3
JRN 410 Photojournalism and Documentary Photography ...	3
(2) JRN 483 Photo Communication in Europe	6
Web	
Two of the following courses:	
TC 331 Introduction to Interactive Media Design	3
TC 349 Client-Side Web Development	3
WRA 210 Introduction to Web Authoring	3
Writing	
ENG 223 Introduction to Creative Non-Fiction Writing	3
ENG 423 Advanced Creative Non-Fiction Writing	3
4. The following capstone course (3 credits):	
TC 411 Collaborative Documentary Design and Production ...	3

SPECIALIZATION IN GAME DESIGN AND DEVELOPMENT

The Specialization in Game Design and Development complements the depth of knowledge students acquire in their majors with a multidisciplinary understanding of game design and development. Students learn the foundations and develop core competencies in their primary area of study and broaden their horizons as interdisciplinary team members, learning game design theories and principles, collaborating on the design and development of game projects, and engaging in active learning and authentic, situated creative problem-solving.

The specialization, which is administered by the Department of Telecommunication, Information Studies and Media, is available as an elective to students who are enrolled in the Bachelor of Science Degree in Computer Science, the Bachelor of Arts or Bachelor of Fine Arts Degree in Studio Art, or the Bachelor of Arts Degree in Media Arts and Technology at Michigan State University.

Students from the above named majors are eligible to apply for the specialization if they: (1) have completed or are currently enrolled in the prerequisites applicable to their major as listed below; and (2) are of junior standing.

To apply, students must submit an application stating their interest in the specialization and a portfolio demonstrating their expertise in media design, computer science, or art. Applications are due by the second week of the fall semester. Depending on the number of students applying, oral interviews may be requested. Academic performance will also be considered.

Students accepted into the specialization may begin the specialization in the spring semester. The advisor for the game design and development specialization must approve the student's program of study.

Prerequisites

Computer Science Majors

CSE 231	Introduction to Programming I	4
CSE 232	Introduction to Programming II	4
CSE 331	Algorithms and Data Structures	3

Studio Art Majors

STA 110	Drawing I	3
STA 111	Drawing II	3
STA 360	Graphic Design I: Graphic Form	3

Media Arts and Technology Majors

CAS 111	The Digital Image	2
CAS 112	Story, Sound, and Motion	2
TC 247	Three-Dimensional Modeling and Design	3
TC 331	Introduction to Interactive Media Design	3

Requirements for the Specialization in Game Design and Development

Complete all of the following courses (12 credits):

	CREDITS	
TC 445	Game Design and Development I	3
TC 455	Game Design and Development II	3
TC 497	Game Design Studio	3
TC 498	Collaborative Game Design (W)	3

SPECIALIZATION IN INFORMATION AND COMMUNICATION TECHNOLOGY FOR DEVELOPMENT

The Specialization in Information and Communication Technology for Development focuses on the role of information and communication technology in fostering economic, social, and environmental change in developing countries. Students will gain a theoretical and practical background in the challenges and opportunities for deploying information and communication technology infrastructure. The program culminates in a field-based experience during which students implement an innovative project in a developing country as part of a study abroad program or execute a project in an underprivileged rural or urban region of the United States.

The Specialization in Information and Communication Technology for Development is administered by the Department of Telecommunication, Information Studies and Media and is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University from the College of Communication Arts and Sciences, and from the College of Engineering. Preference will be given to students in the College of Communication Arts and Sciences and in the College of Engineering. As space permits, students from other colleges desiring the specialization will be considered on an individual basis.

The specialization is open to sophomores, juniors, or seniors in good academic standing.

Students who are interested in the specialization must submit an application essay describing their interest in the specialization and any applicable prior course work or work experience. Applications must be submitted by the second week of the fall or spring semester. Students accepted into the program may begin in either the following fall or spring semester.

With the approval of the department or school and college that administers the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree. The student's program of study must be approved by the student's academic advisor for the specialization.

Requirements for the Specialization in Information and Communication Technology for Development

Students must complete a minimum of 15 credits selected from the following:

	CREDITS
1. Two of the following courses (6 credits):	
CSE 422 Computer Networks	3
CSE 425 Introduction to Computer Security	3
CSE 429 Interdisciplinary Topics in Cyber Security	3
CSE 471 Media Processing and Multimedia Computing	3
ECE 404 Radio Frequency Electronic Circuits	4
ECE 442 Introduction to Communication Networks	3
ECE 457 Communication Systems	3
ECE 458 Communication Systems Laboratory	1
TC 201 Introduction to Media and Communication Technology	3
TC 359 Server-Side Web Development	3
TC 361 Information and Communication Technology Management	3
TC 349 Client-Side Web Development	3
TC 362 Web Administration	3
TC 462 Social Computing (W)	3
TC 472 Electronic Commerce (W)	3
Students may not select both Computer Science and Engineering 422 and Electrical and Computer Engineering 442 as these are equivalent courses.	
2. One of the following courses (3 or 4 credits):	
ANP 322 Peasants and Social Change in the Developing World	3
ANP 414 Anthropology of South Asia	3
COM 391 Topics in Verbal, Intercultural, or Gender Communication	4
COM 399 Special Topics in Communication	3
EC 310 Economics of Developing Countries	3
EC 412 Economic Analysis of Latin America	3
EC 413 Economic Analysis of Asia	3
EC 414 Economic Analysis of Sub-Saharan Africa	3
GEO 335 Geography of Latin America	3
GEO 337 Geography of Asia-Pacific (I)	3
GEO 338 Geography of Africa	3
ISS 315 Global Diversity and Interdependence (I)	4
ISS 330A Africa: Social Science Perspectives (I)	4
ISS 330B Asia: Social Science Perspectives (I)	4
ISS 330C Latin America: Social Science Perspectives (I)	4
MC 320 Politics, Society, and Economy in the Third World	4
SOC 362 Developing Societies	3
Students selecting Communication 391 or 399 to fulfill this requirement must enroll in a section on intercultural or international communication.	
3. The following course (3 credits):	
TC 480 Information and Communication Technologies for Development	3
4. The following course (3 credits):	
TC 488 Information and Communication Technology Global Corps	3
Students should meet with the advisor for the specialization to determine which of the region-specific sections will most effectively prepare them for field work.	

LINKED BACHELOR'S-MASTER'S DEGREE IN HEALTH AND RISK COMMUNICATION

Bachelor of Arts Degree in Media and Information Master of Arts Degree in Health and Risk Communication

The department welcomes applications from Michigan State University undergraduate Media and Information majors with at least 86 credits. Admission applications must be made prior to the final semester as a Media and Information undergraduate. The number of students admitted to this linked program will be limited by availability. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least

two letters of recommendation from faculty in the Department of Telecommunication, Information Studies and Media or Health and Risk Communication faculty, a resume, and an approved program of study for the master's degree at the time of admission. It is recommended that students complete a special topic in the area of health and risk communication through COM 399 Special Topics. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN HEALTH AND RISK COMMUNICATION

Bachelor of Science Degree in Media and Information Master of Arts Degree in Health and Risk Communication

The department welcomes applications from Michigan State University undergraduate Media and Information majors with at least 86 credits. Admission applications must be made prior to the final semester as a Media and Information undergraduate. The number of students admitted to this linked program will be limited by availability. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Telecommunication, Information Studies and Media or Health and Risk Communication faculty, a resume, and an approved program of study for the master's degree at the time of admission. It is recommended that students complete a special topic in the area of health and risk communication through COM 399 Special Topics. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN TELECOMMUNICATION, INFORMATION STUDIES AND MEDIA

Bachelor of Arts Degree in Media and Information Master of Arts Degree in Telecommunication, Information Studies and Media

The department welcomes applications from Michigan State University undergraduates majoring in Media and Information with at least 86 credits. Admission applications must be made prior to the final semester as a Media and Information undergraduate. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Telecom-

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munication, Information Studies and Media, and an approved program of study for the master's degree at the time of admission. To enter the Human Computer Interaction concentration in the master's program, applicants must have already completed CAS 204, TC 331, 349, and 359 obtaining a grade of at least 3.0 in each of these courses. To enter the Media and Information Management concentration in the master's program, applicants must have already completed TC 300, 355, 361, and 452. The number of Media and Information majors admitted into the linked degree program will be limited by availability. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

LINKED BACHELOR'S-MASTER'S DEGREE IN
TELECOMMUNICATION, INFORMATION
STUDIES AND MEDIA

Bachelor of Science Degree in Media and Information
Master of Arts Degree in Telecommunication, Information
Studies and Media

The department welcomes applications from Michigan State University undergraduates majoring in Media and Information with at least 86 credits. Admission applications must be made prior to the final semester as a Media and Information undergraduate. Admission to the program requires a minimum undergraduate grade-point average of 3.50, a statement of goals for the master's degree, Graduate Record Examination scores, at least two letters of recommendation from faculty in the Department of Telecommunication, Information Studies and Media, and an approved program of study for the master's degree at the time of admission. To enter the Human Computer Interaction concentration in the master's program, applicants must have already completed CAS 204, TC 331, 349, and 359 obtaining a grade of at least 3.0 in each of these courses. To enter the Media and Information Management concentration in the master's program, applicants must have already completed TC 300, 355, 361, and 452. The number of Media and Information majors admitted into the linked degree program will be limited by availability. Admission to the Linked Bachelor's-Master's Program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass-fail courses and internships will not count toward the degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

GRADUATE STUDY

The Department of Telecommunication, Information Studies and Media offers graduate work leading to the Master of Arts degree and participates in the doctoral program in Media and Information Studies. A Graduate Certificate in Serious Game Design and Research is also available.

Academic standards for admission and retention; degree requirements; and residence, transfer credit, and time limit requirements are in accordance with the regulations of the university and the college.

Students who are enrolled in master's or doctoral degree programs in the Department of Telecommunication, Information Studies and Media may elect an Interdepartmental Specialization in Cognitive Science. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Cognitive Science* in the *College of Social Science* section of this catalog. For additional information, contact the Department of Telecommunication, Information Studies and Media.

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Master of Arts

The Master of Arts program in Telecommunication, Information Studies and Media is designed to prepare people for professional positions in human computer interaction or media and information management or for further study at the doctoral level. Upon completion of this degree program graduates should possess a broad disciplinary base in the theory, methods, technology, design, and management of telecommunication, information, and media systems in business and society.

The student's degree program must be approved by the student's advisor and the Director of Master of Arts Studies. Both Plan A (with thesis) and Plan B (without thesis) are available to all students.

In addition to meeting the requirements of the university and of the College of Communication Arts and Sciences, students must meet the requirements specified below.

Admission

Admission is determined by an evaluation of information regarding the applicant's academic record, goals and interests, experience, personal references, scores on the General Test of the Graduate Record Examination (GRE), and other materials submitted as indicators of intellectual promise.

A bachelor's degree is required. As an interdisciplinary program, multiple backgrounds are suitable for admission to this program. Although evidence other than grades influences the admission decision, the department uses the following guideline: students whose grade-point averages for the third and fourth years of undergraduate study are 3.25 or better are admitted to regular status. Students whose grade-point averages are below 3.25 may be admitted to provisional status. Students whose grade-point averages are below 3.00 are rarely admitted.

Students may enter the program either during fall or the spring semester. However, it is highly recommended that students start their program in the fall. Additional current information may be obtained from the department's Web site www.mi.msu.edu or the Director of M.A. Studies.

Requirements for the Master of Arts Degree
in Telecommunication, Information Studies and Media

A minimum of 30 credits is required for the master's degree in telecommunication, information studies and media under either Plan A or Plan B. Students must complete the requirements of one of the following concentrations:

CREDITS

Human Computer Interaction

1. Both of the following courses (6 credits):

TC	840 Interaction Design	3
TC	842 Design and Development of Media Projects	3
2. One of the following courses (3 credits):

COM	803 Introduction to Quantitative Research Methods	3
TC	841 Understanding Users	3
3. One of the following courses (3 credits):

TC	820 Theories of Media and Information	3
TC	831 Theories of Games and Interaction for Design	3
TC	845 Human Computer Interaction	3
4. Additional elective course work at the 400-level or above to meet the 30 credits required for the degree. The course work must be approved by the student's academic advisor and at least 15 credits in the degree must be at the 800-level or above.

Additional Requirements for Plan A

- | | | |
|----|--|--------|
| TC | 899 Master's Thesis Research | 4 to 6 |
|----|--|--------|

Additional Requirements for Plan B

1. One of the following:

TC	898 Master's Project	4 to 6
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 or
 Completion of a comprehensive examination.

Media and Information Management

1. Both of the following courses (6 credits):

TC	842 Design and Development of Media Projects	3
TC	861 Information Networks and Technologies	3
2. Three of the following courses (9 credits):

TC	452 Media Strategy (W)	3
TC	458 Project Management (W)	3
TC	851 Understanding Social Media	3
TC	862 Information Networks in Organizations and Commerce	3
TC	875 Information and Communication Technology for Development	3
TC	877 Comparative and International Telecommunication	3
3. Additional elective course work at the 400-level or above to meet the 30 credits required for the degree. The course work must be approved by the student's academic advisor. Not more than 6 elective credits may be taken from outside the college except through joint programs such as the Graduate Specialization in Management of Information Technology and the Graduate Specialization in Cognitive Science. Not more than 6 credits in telecommunication independent study or internship courses combined and not more than 6 credits in either telecommunication independent study or internship courses may be counted toward the requirements for the Master of Arts degree in Telecommunication, Information Studies and Media.

Students may choose to complete the following *Information, Policy and Society Cognate* (9 credits):

- a. Both of the following courses (6 credits):

COM	803 Introduction to Quantitative Research Methods	3
TC	820 Theories of Media and Information	3
- b. One of the following courses (3 credits):

TC	850 Telecommunication and Information Policy	3
TC	852 Economic Structure of Telecommunication Industries	3

Additional Requirements for Plan A

- | | | |
|----|--|--------|
| TC | 899 Master's Thesis Research | 4 to 6 |
|----|--|--------|

Additional Requirements for Plan B

1. One of the following:

TC	898 Master's Project	4 to 6
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 or
 Completion of a comprehensive examination.

GRADUATE CERTIFICATE IN SERIOUS GAME DESIGN AND RESEARCH

The Graduate Certificate in Serious Game Design and Research is designed for game industry professionals already versed in game design who want to expand their knowledge to the domain of serious games, professional educators and educational technology specialists who want to understand how and why games can be used for learning, and graduate students who would like to add expertise in serious games to their courses of study. The certificate program exposes students to the state of the art in different strands of serious games such as games for learning, corporate training, newsgames, games for health, exergames, military games, and games for social change; distribution; industry structure; and theories and methods of game design.

Admission

To be considered for admission into the Graduate Certificate in Serious Game Design and Research, applicants must have completed a bachelor's degree.

Requirements for the Graduate Certificate in Serious Game Design and Research

CREDITS

Students must complete the following (9 credits):

1. All of the following course (9 credits):

TC	830 Foundations of Serious Games	3
TC	831 Theories of Games and Interaction for Design	3
TC	841 Understanding Users	3

Students who are currently enrolled in a graduate degree program at MSU may substitute an alternative course for TC 841. This course must be related to the need for, or evaluation of, serious games. It must be selected to contribute to each student's development of expertise and research in the chosen discipline. This alternative course must be approved by the advisor for the Graduate Certificate in Serious Game Design and Research.

GRADUATE SPECIALIZATION IN MANAGEMENT OF INFORMATION TECHNOLOGY

The Graduate Specialization in Management of Information Technology, which is administered by the Department of Telecommunication, Information Studies and Media, is available to students enrolled in the Master of Arts degree in Telecommunication, Information Studies and Media. With the approval of the student's academic advisor, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the master's degree.

The specialization is intended for students who want to study the management of information technology, based upon a cooperation between the Department of Telecommunication, Information Studies and Media, and the Department of Accounting and Information Systems in the Eli Broad College of Business.

The specialization is designed to provide multiple perspectives on how information and communication technology affect the workplace, and how these technologies can be implemented in effective ways. Students will train for roles in organizations where they will be designing, implementing and evaluating information and communication technology. Areas of focus include business processes, the interaction of social and technical systems within organizations, design of information technology systems, and evaluation of technology within organizations.

Admission

Students must apply to the department in writing, fill out a plan of study, and complete Telecommunication 861 prior to admission to the specialization.

Requirements for the Graduate Specialization in Management of Information Technology

CREDITS

Students must complete 15 credits from the following:

1. All of the following courses (9 credits):

ACC	821 Enterprise Database Systems	3
ACC	824 Digital Business Models and Processes	3
TC	862 Information Networks and Electronic Commerce	3
2. Two courses selected from the following (6 credits):

ACC	822 Analysis and Design of Enterprise Systems	3
ACC	823 Advanced Enterprise Database Systems	3
ACC	825 Object-Oriented Business Information Systems	3
ACC	826 Enterprise Information Systems	3
ACC	890 Independent Study	3

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Doctor of Philosophy

The Department of Telecommunication, Information Studies and Media participates in the doctoral program in Media and Informa-

tion Studies. This program is described under the College of Communication Arts and Sciences listing.