Master's Program in Informatics

Name of the degree to be conferred	Master of Science in Informatics
Educational purpose	Information has played an important role in human activities, but its importance has rapidly increased with recent technological advances. In order to respond to such situations, the Master's Program in Informatics (doctor first semester course) will train personnel engaged in specialized work to utilize information for academic purposes, education, daily life, culture, etc., through an interdisciplinary approach that combines humanities and sciences.
Vision of human resources development	A person who understands human and information-related issues and has the expertise and skills to carry out tasks ・The ability to use the latest information technology to analyze data, develop systems and produce media ・A person who can propose the best information environment for the community based on the interaction between humans and information ・A person who understands the diversity of history and culture, and is able to share and pass on knowledge and information resources
Competencies specified in diploma policy	**Evaluation perspectives**
1. Knowledge application competence: Ability to contribute to society with advanced knowledge	①Can you apply knowledge gained through research and other activities in society? ②Can you identify new problems, even in other fields of expertise, based on broad knowledge?
2. Management competence: Ability to appropriately address challenges from broad standpoints	①Can you take on major tasks with systematic planning? ②Can you understand and solve problems from multiple perspectives?
3. Communication competence: Ability to accurately and clearly communicate expert knowledge	①Are you capable of efficient communication for research purposes? ②Can you discuss research or research-specific knowledge with experts from your own field and from other fields?
4. Teamwork competence: Ability to work with a team and actively contribute to the achievement of goals	①Do you have experience cooperatively and actively working on challenges as part of a team? ②Have you helped promote projects and activities other than your own research?
5. Internationality competence: Willingness to contribute to international society	①Are you aware of making contributions to international society and getting involved in international activities? ②Have you obtained the linguistic skills necessary for international information collection and action?
6. Semantic Research Skills: the ability to analyze data semantically using appropriate methods.	①Can the student obtain data for research and select appropriate methods for semantic analysis ②Can the student get a reasonable interpretation from the results of the analysis, depending on the purpose?
7. Mathematical Research Skills: The ability to analyze data mathematically using appropriate methods.	①Can the student obtain data for research and select appropriate methods for mathematical analysis ②Can the student get a reasonable interpretation from the results of the analysis, depending on the purpose?
8. Media Expertise: Expertise in developing new media with an awareness of its application to social systems.	①Can the student explain the impact of media and network technologies on society? ②Can the student develop media based on information design and its impact on society?
9. Systems Expertise: Expertise in designing systems that analyze multiple aspects of human-information interaction	①Can the student build a computational model of human information behavior ②Can the student propose a new service system based on human-information interaction?
10. Resource Expertise: Expertise in understanding historical and cultural diversity through materials and building a knowledge resource base	①Can the student understand the diversity of history and culture and envision the future of information resources? ②Can the student understand the various issues of information distribution and evaluate information management and information services?
11. Information Ethics: Ethics and normative awareness of information	① Does the student have accurate knowledge of intellectual property rights and the ability to make appropriate judgments? ②Can the student act in a normative manner when it comes to the handling of information?

Dissertation evaluation criteria

Dissertation submitted for a degree for which all of the following evaluation items are deemed appropriate or have been achieved will be accepted as a master's dissertation upon completion of the final examination.
1. Significance of the research theme
2. Grasping and understanding of prior research
3. Validity of the research method
4. Conclusions and the validity of the logic leading to them
5. Adequacy of style and organization
6. Appropriate citation of documents and materials

The method of dissertation examination shall be as follows.

Dissertation reviews are conducted by the Dissertation review committee, which is established for each dissertation, after comprehensively judging the content of the dissertation, the presentation of the dissertation in public, and the final examination.
1) The Dissertation review committee consists of one primary examiner and two or more secondary examiners.
2) The public presentation will take about 30 minutes including questions and answers.
3) Final examinations shall be conducted by oral or written means, mainly on the dissertation and related fields. However, an open dissertation presentation may be substituted for an oral examination, and if necessary further oral or written examinations will be given.

Curriculum Policy

To train individuals who will be involved in specialized work to utilize information for academic, educational, lifestyle and cultural activities through an interdisciplinary approach that integrates the humanities and sciences, students will acquire general and specialized knowledge and abilities as outlined in the diploma policy. General knowledge and ability will be acquired mainly through Graduate General Education Courses, Inter-disciplinary Foundation courses, degree programs' common courses and compulsory seminar subjects, and specialized knowledge will be acquired mainly through elective lecture subjects. In addition to the Japanese curriculum for new students entering the spring semester, an English curriculum for new students entering the autumn semester, and a curriculum for adults attending mainly at the Tokyo Campus will be created in an integrated manner.

Curriculum organization policy	・The curriculum consists of Graduate General Education Courses, Inter-disciplinary Foundation Courses, and the Degree Programs' Common Courses, as well as Media Science Specialized Courses, Information Interaction Specialized Courses, Library and Information Science Specialized Courses, and the Methodological Graduate General Education Courses, the Research Practice Courses, and the Research Seminar Courses all of which are unique to this degree program.
	・Students will acquire general knowledge and abilities such as knowledge utilization, Management competence, Communication competence, Teamwork competence, and Competence in Internationality through the Graduate General Education Courses, the Inter-disciplinary Foundation Courses, and the Degree Programs' Common Courses.
	・The Specialized Courses in Media Science (lecture subject) provide students with the ability to read the nature of data, select appropriate methods for their purposes, and analyze the data. They also acquire the ability to develop new media with an awareness of its application to information and social systems.
	・The Special Course on Information Interaction (lecture subject) teaches students the ability to analyze multifaceted interactions between human intellect and computer input/output and the ability to design information services and various Web services.
	・The Special Courses in Library and Information Science (lecture subject) provide students with the ability to understand the meaning of historical and cultural materials, foster an understanding of society, foster a new society, and design information services for libraries, archives, museums, and a variety of Web services.
	・The Methodological Graduate General Education Courses group (practice subject) consists of Research Foundation, Literature Survey, Surveys and Data Analysis, and the Research Practice Courses group (practice subject) consists of research plans and work plans, and students acquire the basic research skills required to carry out research in a practical manner.
	・The Group of Research Seminar Courses (practice subject) consists of the Special Seminar in Informatics, the Global Research Seminar Ia, the Global Research Seminar Ib, the Global Research Seminar IIa, and the Global Research Seminar IIb. Students will acquire research ability through the practice of research in the theory and application of data utilization utilizing the characteristics of the media, the theory and application of information utilization focusing on communication, and the theory and application of management of knowledge resources as a social infrastructure. However, Global Research Seminars are not included in the completion requirements.

Learning methods·Processes	・Lecture courses include a minimum of 12 credits from s Major Subjects groups and up to 8 credits from Graduate General Education Courses, Inter-disciplinary Foundation Courses, Degree Programs' Common Courses, and lecture courses of other graduate schools or degree programs of the University. ・Seminar subjects include 6 credits from Methodological Foundation Courses and Research Practice Courses and 4 credits from Research Seminar Courses. In principle, students will solidify their basic research skills by taking basic methodological subjects in their first year, and acquire research execution skills based on their basic research skills by taking Research Seminar Courses in their first and second year. ・Regardless of the entrance examination category and the instructional language, the prescribed credits may be included in the completion requirements.
Evaluation of learning outcomes	・Each subject is evaluated according to the evaluation method described in the syllabus. ・Possession of general and specialized knowledge and abilities will be confirmed by the expert committee each year based on course mastery and activities, including papers and conference presentations. ・Midterm presentations will be assessed on the basis of research content, research methods, and presentation skills. ・Dissertation reviews shall be conducted by the Dissertation review committee, which is established on a case-by-case basis for each dissertation accepted. ・Final examinations shall be conducted by oral or written means, mainly on the dissertation and related fields. However, a public dissertation presentation may be substituted for the oral examination.
Admission Policy	
Desired students	・Individuals who have a deep interest in the use of information and strive to take an interdisciplinary approach to the formulation and resolution of problems. ・Individuals who have basic knowledge of informatics or related fields and who have communication skills, presentation skills, and language skills.
Selection policy	Selection will be based on a comprehensive evaluation of English language scores and oral examination results. The English language test may be waived for applicants who are applying through the Special Selection Process for Recommended Applicants and the Special Selection Process for Working Individuals. Video conferencing tools will be used for the oral examination for applicants who are applying through the Special Selection Process of Global Individuals in English and entering the program in October.