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2009 Admission Guide
Department of Creative Informatics
Graduate School of Information Science and Technology
The University of Tokyo

Master's Program,
Doctoral Program and
Doctoral Program [Special selection for working students]

Contact [Department Administration Office]

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656
Department Team (Department of Creative Informatics)
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Graduate School of Engineering / Information Science and Technology
The University of Tokyo
TEL: 03-5841-6888

Admission Guide on the Internet:

<http://www.i.u-tokyo.ac.jp/>

Under “Guidance for Visitors” on the webpage [<http://www.i.u-tokyo.ac.jp/>], click on “Examinations and Admissions” → “Admissions” → “Department of Creative Informatics.”

Note 1: In addition to this pamphlet, be sure to check items for examinees in the 2009 Admission Guide: Graduate School of Information Science and Technology (three types: Master's program, Doctoral program, and Doctoral program [Special selection for working students]) as well as the 2009 Guidelines for Submission of TOEFL Scores, Graduate School of Information Science and Technology. When submitting entrance application documents, use the pamphlet distributed along with other paper documents; do not use a printed version of the web page.

Note 2: The Department of Creative Informatics conducts Summer entrance examinations and Winter entrance examinations for both the Master's and Doctoral programs. Schedules, examination subjects, and examination methods differ for Summer and Winter entrance examinations.

1. Message to applicants

The Department of Creative Informatics is the newest department within the comparatively new Graduate School of Information Science and Technology. It was founded in 2005 at Akihabara Crossfield, which has been generating the hottest topics in the field of information technology. The Department of Creative Informatics currently incorporates aspects of five fields: Computer Science, Mathematical Informatics, System Informatics, Information and Communication Engineering, and Mechano-Informatics. The educational philosophy is “To refine practical creativity for realizing outstanding ideas, through creative practices over interdisciplinary fields.” Another goal of the department is to “Publish research results as a core base of research for Akihabara Crossfield, which aims to be a global basis for IT activities.” To achieve this goal, the department will combine projects and advanced personnel training, and will promote collaboration among industry, government, and academia aimed at human resource cultivation. We hope that students completing this department program will go on to play a leading role in the field of information technology.

With this philosophy in mind, the “Information Science and Technology (IST) Hands-on Program” was initiated in the second half of the 2006 academic year in accordance with the “Leading IT Specialist Training Program” put forward by the Ministry of Education, Culture, Sports, Science and Technology. The “IST Hands-on Program” is based on close collaboration with Tokyo Institute of Technology and the National Institute of Informatics (NII).

The School of Information Science and Technology hopes that the Department of Creative Informatics will play a central role in creating an “IST Hands-on Studio” in Akihabara, and in fostering Japan’s next generation of IT leaders.

The leaders envisioned by the “IST Hands-on Program” are characterized as “IT Creators” who can create technologies that will play a key role in society, and also “IT Architects” who have a systematic knowledge of software development technologies and who can design development processes with a bird’s-eye perspective on software development as a whole. Please take a look at http://www.i.u-tokyo.ac.jp/ist_hands-on.

The School of Information Science and Technology conducts a variety of other research projects as well. One of the most notable of these is a large-scale project targeting “The creation of IRT Services in an Aging Society” (<http://www.irt.i.u-tokyo.ac.jp/>). The goal of this project is to form a base for the creation of innovations in advanced and integrated fields, through Special Coordination Funds for Promoting Science and Technology. “IRT” refers to a future-oriented research field that combines IT and Robot Technologies. Many students and professors of the Department of Creative Informatics are involved in this project.

Another leading IT specialist training program was started in the 2007 academic year: the “Integrated Special Scheme for Information Security Specialist cultivation (ISS Square; <http://iss.iisec.ac.jp>).” This educational program, promoted through collaboration involving the Institute of Information Security, Chuo University, and the University of Tokyo, provides students entering the department with the opportunity to take this course. Students completing this course along with the “IST Hands-on Program” will no doubt acquire invaluable skills.

Of course, aside from the above, each laboratory conducts its own original and creative research. Students can undertake this research as their core endeavor while at the same time participating in the above educational programs, thereby obtaining some of the credits required to complete the Master’s program. This is because refining one’s IT skills is indispensable in order to cultivate the fundamental abilities common to all related fields.

2. Master's program

2.1 Examination schedules and examination subjects

i) Summer examination

(1) Regular education subjects

Applicants must select either Mathematics or Programming at the time of application.

Dates, times, and locations (Locations will be posted at the main entrance to the School of Engineering Bldg. No. 6 on the day of the examination)	Examination subjects	Description
August 25 (Monday), 2008 10:00 – 12:30 School of Engineering; Bldg. No. 6 (Refer to posting for details)	Mathematics	Students will be required to answer three problems that will test basic mathematical abilities required for basic studies of information science and technology. Problems will be selected from the following three fields: (1) linear algebra; (2) analysis (calculus, ordinary differential equations, etc.); and (3) probability and statistics.
August 25 (Monday), 2008 10:00 – 12:30 13:30 – (Finishing time for afternoon session will depend on the number of examinees) School of Engineering; Bldg. No. 6 (Refer to posting for details)	Programming	In the morning session, students will be required to bring their own laptop PC and write a program based on a specified theme. Students may use whichever programming language they feel most comfortable with. The oral examination in the afternoon, will also test the students' ability to analyze problems, create designs, produce documents, and give presentations. In the afternoon, students will be required to respond to simple oral questions (lasting approximately 10 minutes each) regarding their own programs.

Notes:

(a) An operating environment required to write programs will be installed in the laptop PCs used for the programming examination. Students may bring one printed manual for the programming language, and may refer to this manual during the examination. Students may also use source programs, libraries, and other resources stored on the PC. Network connections will not be allowed during the examination. Confirm that USB memory can be used on your PC. If you do not have a laptop PC as required for the programming examination, you may borrow one from the department. Contact the Department Administration Office at least one week before the examination at the number shown on the cover of this guide.

(b) Problems may require files to be read from USB memory. In such cases, all file will be in ASCII code with new lines are indicated by the combination of “carriage return (CR) and linefeed (LF)” codes.

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(c) The programming examination in the afternoon will be individual oral examination. The laptop PC used in the morning examination will be connected to an XGA projector, and students will be required to answer questions while displaying the program and the execution results. If your laptop PC does not have a mini Dsub-15pin monitor port, do not forget to bring a monitor connector cable for your own laptop PC. Students will be provided with a rough schedule for the oral examination in advance, but the detailed schedule will not be announced until after the morning examination is completed, depending on the actual examination progress.

(2) Foreign languages

TOEFL scores will be used to determine the student's English skills. No written English examination will be administered. Refer to the 2009 Guidelines for Submission of TOEFL Test Scores, which are provided separately from this guide. Note that in past years, it took a considerable amount of time to submit TOEFL score certificates. If a student is unable to take the TOEFL test for unavoidable reasons, the designated TOEFL-ITP test (August 11, 2008) may be taken as a substitute. For details, refer to the 2009 Guidelines for Submission of TOEFL Test Scores.

(3) Specialized subjects

Students shall select one of the following five specialized subjects at the time of application. Students being tested in specialized subjects for other departments should refer to their Entrance Examination Guides for details on locations and subject matters of those examinations.

Dates, times, and locations	Subject	Description
August 26 (Tuesday), 2008 10:00 – 12:30 School of Engineering Bldg., No.6, Lecture Rm. 61; 2 nd floor (tentative)	Creative Informatics	Problems will be selected from fields related to software/algorithms, computer hardware, and information systems, among other fields. Students will be required to answer three questions.
August 26 (Tuesday), 2008 10:00 – 12:30 And 13:30 – 16:00	Computer science	Refer to the “2009 Admission Guide” for the Department of Computer Science.
August 26 (Tuesday), 2008 10:00 – 13:00	Mathematical Informatics	Refer to the “2009 Admission Guide” for the Department of Mathematical Informatics.
August 26 (Tuesday), 2008 10:00 – 13:00	System Informatics	Refer to the “2009 Admission Guide” for the Department of System Informatics.
August 27 (Wednesday), 2008 9:00 – 11:30	Information and Communication Engineering	Refer to the “2009 Admission Guide” for the Department of Information and Communication Engineering.

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(4) Oral examination

The oral examination is scheduled to be held in the School of Engineering Bldg. No.6, Lecture Rm. 61, on the 2nd floor, on August 27 (Wednesday), 2008, starting at 1:30 p.m. (finishing time will depend on the number of examinees). Students will be provided with a rough schedule for the oral examination in advance, but the detailed schedule will be posted on the day of the examination, in front of the room where the oral examination is held, depending on the actual examination progress. In the oral examination, students will be required to answer questions on topics including the content of the written examination, current research themes, and desired research themes they wish to undertake in graduate school.

(5) Exemption from examinations on regular education subjects and specialized subjects

In the Summer entrance examination, students with outstanding achievements in the creation of information systems or specialized subjects may request to be exempted from written examinations (examinations for regular education subjects and specialized subjects). In this case, students should submit the following documents along with other application documents. The form for requesting exemption from examinations can also be downloaded from the Department of Creative Informatics website. This form may be filled in and submitted in lieu of the one on this pamphlet.

Exemption from examinations on regular education subjects and specialized subjects: Application form	On the application form, provide a brief personal history of the applicant and reasons for the application, and be sure to include an explanation of the applicant's outstanding achievements with regard to specialized subjects or the information systems the examinee created using about two A4 pages (any format is acceptable). Please also include copies of any available documents providing objective evidence of these achievements, such as awards, articles, software, or publications.
Letters of recommendation	Submit letters of recommendation from two evaluators including evaluations of the applicant's outstanding achievements. Evaluators should be a faculty advisor or a superior from a government agency, company, or affiliated organization, or other persons who have extensive knowledge of the applicant's experience and abilities.
Academic transcripts	Documents verifying the student's academic performance in the academic department in question (including liberal arts courses). (This certificate must be submitted even if the applicant is currently registered at the University of Tokyo.)
Research plan	The applicant's plan for research after entering the school should be summarized on about two A4 pages (any format is acceptable).

Applicants will be advised in mid July regarding the decision on exemption from examinations. If the exemption is not granted, the student will be required to take all designated examinations for regular education subjects and specialized subjects.

ii) Winter examination

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(1) Regular education subjects

Unlike the Summer entrance examination, the Winter entrance examination will cover programming only.

Dates, times, and locations (Locations will be posted at the main entrance to the School of Engineering Bldg. No. 6 on the day of the examination)	Examination subjects	Description
February 18 (Wednesday), 2009 10:00 – 12:30 13:30 – (Finishing time for the afternoon session will depend on the number of examinees) School of Engineering; Bldg. No. 6 (Refer to posting for details)	Programming	Refer to explanation of Summer entrance examination

Note: Refer to explanation of Summer entrance examination

(2) Foreign languages

TOEFL scores will be used to determine the student's English skills. No written English examination will be administered. Refer to the Guidelines for Submission of TOEFL Test Scores, which are provided separately from this guide. Note that in past years, it took a considerable amount of time to submit TOEFL score certificates. Please note that only TOEFL scores will be accepted for the foreign-language segment of the Winter entrance examination. Students will not be allowed to take the TOEFL-ITP test in lieu of submitting TOEFL scores, so applicants are strongly urged to take the TOEFL test at the earliest possible date.

(3) Specialized subjects

Unlike the Summer entrance examination, students cannot take examination for specialized subjects of other departments.

Dates, times, and locations	Specialized subjects	Description
February 17 (Tuesday), 2009 14:00 – 16:30 School of Engineering; Bldg. No.6, Lecture Rm. 61; 2 nd floor (tentative)	Creative Informatics	Problems will be selected from fields related to software/algorithms, computer hardware, and information systems, among other fields. Students will be required to answer three questions.

(4) Oral examination

The oral examination is scheduled to be held in the School of Engineering Bldg. No.6, Lecture Rm. 61, on the 2nd floor, on February 19 (Thursday), 2009, starting at 10:00 a.m. (finishing time will

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depend on the number of examinees). Students will be provided with a rough schedule for the oral examination in advance, but the detailed schedule will be posted on the day of the examination, in front of the room where the oral examination is held, depending on the actual examination conditions. In the oral examination, students will be required to answer questions on topics including the content of the written examination, past research themes, and desired research topics to be undertaken in graduate school.

2.2 Submission of Preference survey form

Applicants must submit the Preference survey form (Summer and Winter entrance examinations for the Master's program) along with other application materials. In the Department of Creative Informatics, as a rule, a maximum of three students will be assigned to each full-time faculty advisor during a given academic year, and one or two students will be assigned to each concurrent faculty advisor who belongs to another department. If you have any questions when filling in this form, contact the Department Team (Department of Creative Informatics), and relevant advisors will offer assistance. Students who have tentatively fulfilled the requirements, that is, who have passed the examination informally, will immediately be assigned a tentative faculty advisor.

3. Doctoral program / Doctoral program [Special selection of working students]

3.1 Examination schedules

i) Summer examination

(1) First round examination

Dates, times, and locations (In the event of changes in examination locations, locations will be posted at the main entrance to the School of Engineering Bldg. No. 6 on the day of the examination)	Examination subjects	Description
August 26 (Tuesday), 2008 10:00 – 12:30 School of Engineering; Bldg. No.6, Lecture Rm. 61; 2 nd floor (tentative)	Specialized subjects	Problems will be selected from fields related to software/algorithms, computer hardware, and information systems, among other fields. Students will be required to answer three questions.
August 26 (Tuesday), 2008 From 2:00 p.m. (Finishing time will depend on the number of examinees) School of Engineering; Bldg. No.6, Lecture Rm. 61; 2 nd floor (tentative) (Students will be provided with a rough schedule for the oral examination in advance, but the detailed schedule will be posted on the day of the examination, in front of Lecture Rm. 61, depending on the actual examination progress.)	Oral examination	Students will be required to give a presentation on their Master's thesis or equivalent paper (about 15-20 min.; projector can be used), then will be required to answer oral questions on the presentation. Students should also be prepared to answer oral questions about their research plan for the Doctoral program.

Notes:

(a) TOEFL scores will be used to determine the student's English skills. No written English examination will be administered. Refer to the 2009 Guidelines for Submission of TOEFL Test Scores, which are provided separately from this guide. Note that in past years, it took a considerable amount of time to submit TOEFL score certificates. If a student is unable to take the TOEFL test for unavoidable reasons, the designated TOEFL-ITP test (August 11, 2008) may be taken as a substitute. For details, refer to the 2009 Guidelines for Submission of TOEFL Test Scores.

(b) Persons who have completed or are expected to complete the Master's program of Graduate School Graduate School of Information Science and Technology of the University of Tokyo will neither be required to submit TOEFL scores nor to take the examination for specialized subjects.

(2) Second round examination

In principle, the second round examination will be held from January 29 (Thursday) to January 30 (Friday), 2009, only for applicants for the Summer entrance examination who are currently

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registered with the Department of Creative Informatics and who are taking the examination for the Master's program. Examination schedules for other examinees will be in accordance with the Winter entrance examination. Applicants will be notified later regarding details of schedules and locations. In the case of persons wishing to enter the school in October and persons holding a master's degree at the time of application, the second round examination will be conducted based on the schedule for the oral examination.

ii) Winter examination

First and second round examinations will be conducted during the period from February 17 (Tuesday) to February 19 (Thursday), 2009. Acceptance may be limited to a few students. Examination methods will be the same as those used for Summer examination. Details of schedules and locations will be in accordance with the 1st and 3rd days of the entrance examination schedules for the Master's program Winter entrance examination. Note that only TOEFL scores will be accepted for the foreign-language segment of the Winter entrance examination. Students will not be allowed to take the TOEFL-ITP test in lieu of TOEFL scores, so applicants are strongly urged to take the TOEFL test at the earliest possible date.

3.2 Preference surveys for applicants to the Doctoral program

Persons applying to the Doctoral program should keep in close contact with their preferred faculty advisor before the application period. Applicants must submit the Preference survey form (for the Doctoral program) along with other application materials. Students who have tentatively fulfilled the requirements for the Doctoral program, that is, who have passed the examination informally, will immediately be assigned a tentative faculty advisor.

3.3 Submission documents for the Doctoral program [Special selection for working students]

The format for the "overview of achievements, etc.," is indicated in Chapter 5 in the Documents for Submission to the Doctoral program [Special selection for working students] Guidelines for Applicants. Provide a simple explanation of each major achievement during employment, using no more than two A4 size pages.

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2009 Information for Persons Taking Entrance Examination
Department of Creative Informatics
Graduate School of Information Science and Technology
The University of Tokyo
(Master's and Doctoral Programs)

1. Examination dates and times

Refer to the “Examination schedules” listed in this guide.

2. Examination locations

University of Tokyo, Hongo Campus (7-3-1 Hongo, Bunkyo-ku, Tokyo)

Refer to the Internet Hongo Campus map at http://www.u-tokyo.ac.jp/campusmap/map01_01_j.html

Subway: Marunouchi Line and Oedo Line: Get off at Hongo Sanchome Station

Chiyoda Line: Get off at Nezu Station

Namboku Line: Get off at Todai Mae Station

Mita Line: Get off at Kasuga Station

Bus: Take Toei Bus No. 43 or 51 to “Todai Seimon Mae” (University of Tokyo main gates), or Toei School Bus No. 1 or 7 to “Todai Konai” (University grounds).

Examinees should be in the designated examination room no later than 5 minutes before the start of the examination. If you are late, consult the proctor.

3. What to bring

(1) Examination admission card

(2) Black pencil (or black mechanical pencil), eraser, pencil sharpener, clock or watch (for showing time only; devices with other functions are not permitted), and a ruler.

Note: During the written examination, students are not allowed to use calculators, mobile phones, or other digital devices (including clocks) with calculation functions.

(3) Persons taking the programming examination for the Master's program should bring a laptop PC and no more than one programming language manual.

4. Items to keep in mind during examination

(1) Examinees will not be allowed to leave the examination room until at least one hour after the start of the examination.

(2) As a rule, examinees will not be allowed to use the bathroom facilities during the examination period.

(3) Examination admission cards must be kept on the desktop throughout the examination period.

(4) During the examination period, and all mobile phones must be turned off. Mobile phones must not be carried on the examinees person (on neck straps, in pockets, etc.).

(5) Examinees will not be allowed to ask questions about the contents of the examination problems.

(6) Examinees must write their examination admission number and name on all answer sheets, and enter their answers on the respective designated forms. If there is not enough space, they may write on the back of the answer sheets.

(7) Examinees must not take answer sheets or question booklets out of the examination room.

Exemption from examinations on regular education subjects and
specialized subjects: Application form
(Master's program, Summer entrance examination only)

Examinee's name:

Brief description of background:

Reason for requesting exemption (In addition to this form, submit a brief explanation of outstanding achievements using two A4 size pages. Any format is acceptable.)

Exemption from examinations on regular education subjects and
specialized subjects:
Letter of recommendation (A)

Examinee's name		Name of recommending person	
Relationship between recommending person and examinee			
Reason for recommendation			

Exemption from examinations on regular education subjects and
specialized subjects:
Letter of Recommendation (B)

Examinee's name		Name of recommending person	
Relationship between recommending person and examinee			
Reason for recommendation			

[Preference survey form (Summer entrance examination for Master's program)]

Department of Creative Informatics, Graduate School of Information
Science and Technology, the University of Tokyo

Program	Master's program					
Examinee's name		*Examination admission number				
Graduating university	University: _____ School: _____ Department: _____					
Examinee contact address and phone number during the examination period	TEL: TEL (mobile phone): E-mail:					
Names of preferred advisors	Preference 1					
	Preference 2					
	Preference 3					
Do you wish to be exempted from examination on regular education subjects and specialized subjects?	Yes	Regular education subjects to be tested	Mathematics	Programming	Do you wish to enter the school in October 2008?	Yes
Specialized subjects to be tested on the examination (Check)	Creative Informatics	Computer science	Mathematical Informatics	System Informatics	Information and Communication Engineering	
Preferred field and research ambitions						

- Submit this form along with your application.
- * Leave this box blank

- Persons wishing to be exempted from examinations on regular education subjects and specialized subjects should circle “Yes” in the appropriate column, and submit the required additional documents along with the application form.
- If you wish to enter the school in October 2008, confirm whether the requirements are satisfied with the administration office and circle “Yes” in the appropriate column above.
- Circle one regular education subject and one specialized subject to be tested.

[Preference survey form (Winter entrance examination for Master's program)]

Department of Creative Informatics, Graduate School of Information
Science and Technology, the University of Tokyo

Program	Master's program		
Examinee's name		*Examination admission number	
Graduating university	University: _____ School: _____ Department: _____		
Examinee contact address and phone number during the examination period	TEL: TEL (mobile phone): E-mail:		
Names of preferred advisors	Preference 1		
	Preference 2		
	Preference 3		
Preferred field and research ambitions			

- Submit this form along with your application
- * Leave this box blank.

[Preference survey form (Summer/Winter entrance examination for Doctoral program)]

Department of Creative Informatics, Graduate School of Information
Science and Technology, the University of Tokyo

Program	Doctoral program		
Examinee's name		*Examination admission number	
Graduating university or graduate school	University: _____ School: _____ Department: _____ Graduate School: _____ School: _____ Department: _____		
Examinee contact address and phone number during the examination period	TEL: TEL (mobile phone): E-mail:		
Names of preferred advisors			
Application period (Circle the appropriate response)	Summer / Winter	Special selection for working students	Working student
Preferred time of entry (Circle the appropriate response)	October 2008 / April 2009		
Preferred field and research ambitions			

- Submit this form along with your application.
- * Leave this box blank.
- If you wish to enter the school in October 2008, confirm whether the requirements are satisfied with the administration office and circle “Yes” in the appropriate column.
- If you are taking examination for “Special selection of working students,” circle “Working student” in “the special selection of working students” column.

Department of Creative Informatics, Graduate School of Information
Science and Technology, the University of Tokyo
Faculty Advisors and Concurrent Faculty Advisors (as of April 2008)

Faculty Advisors

Professor Ikuo Takeuchi*

Real-time Distributed Cooperative System, Symbol Processing

Professor Mitsuru Ishizuka

Artificial Intelligence, Multimodal Media

Professor Kei Hiraki

Super High-Speed Network, Super High-Speed Computation, Strategic Software

Professor Masatoshi Ishikawa

Perception Action System, Vision Chip

Professor Masayuki Inaba

Intelligent Robot, Humanoid

Associate Professor Mary Inaba

Network, Supercomputer, Computational Geometry

Associate Professor Kumiko Tanaka-Ishii

Computational Linguistics, Natural Language Processing

Assistant Professor Koichi Sasada

Programming Languages, Operating System, Virtual Machine

Concurrent Faculty Advisors who belong to other departments

Professor Shinichi Honiden (Dept. of Computer Science)

Software Engineering, Agent

Professor Masami Hagiya (Dept. of Computer Science)

System Software, Interactive Software

Professor Masato Takeichi (Dept. of Mathematical Informatics)

Mathematical Principle in Program, Programmable Structured Document System

Professor Shigeki Sagayama (Dept. of Information Physics & Computers)

Intelligent Processing of Music, Acoustics, Speech, Handwriting and Images

Professor Hiroshi Esaki (Dept. of Information & Communication Engineering)

Next Generation Internet

Professor Tomomasa Sato (Dept. of Mechano-Informatics)

Human Symbiotic Robotics

Note:

(1) For details of professors' activities, consult the department website at

<http://www.ci.i.u-tokyo.ac.jp>.

(2) * Professor Ikuo Takeuchi is no longer accepting new students as of 2009.

(3) Other advisors who accept students of the Department of Creative Informatics will be registered as concurrent faculty advisors after admission.