

AY 2022
Entrance Examination Information for the
Application Guide
for Professional Degree Program
School of Public Health

令和 4 (2022) 年度公共健康医学専攻
募集要項 入学試験案内

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東京大学大学院医学系研究科
Graduate School of Medicine
The University of Tokyo

AY 2022 Entrance Exam Guidelines
Professional Degree Program,
School of Public Health (Professional Graduate School)
Graduate School of Medicine, the University of Tokyo

The School of Public Health aims to produce highly-advanced professionals capable of performing leadership and practical roles in the field of public health in order to maintain, promote and restore health as well as to enhance the quality of life of a broad range of people including patients, local residents, and the nation.

The School of Public Health's quota is 30 students, consisting of 20 students in the 2-year course and 10 students in the 1-year course (standard program duration of 1 year).

1. Outline

Japan is currently facing a number of urgent modern social issues, such as a rapidly declining birthrate, aging population, decentralization of authority, the emergence & reemergence of infectious diseases, the threat of bioterrorism, increased rates of suicide and death from overwork, medical malpractice, and deteriorating healthcare management.

The School of Public Health delivers education with the aim of producing highly-advanced professionals equipped with techniques for analyzing the health of human populations, a systematic understanding of social healthcare systems, and a public health-oriented mindset with excellent policymaking and management capabilities.

The curriculum consists of Epidemiology, Biostatistics, Clinical Epidemiology, Health Economics, Health Communication, Mental Health, Health Sociology, Social Gerontology, Biomedical Ethics, Human Resource Development for Health, Health Policy, Healthcare Informatics, Forensic Medicine/ Medical Law, Medical Safety Management, Health Risk Management, Environmental Health, and Theory and Practice of Occupational Health. Students can obtain a (professional) master's degree in public health by taking 30 or more units of both compulsory and elective subjects from this curriculum.

Upon completion, it is envisaged that students will find work as public health physicians in the field of healthcare administration/ health management within the public or private sectors; clinical epidemiology/ healthcare economics analysts engaged in EBM and clinical testing; healthcare analysts/ coordinators involved in healthcare quality analysis or advocacy; and healthcare information/ clinical engineering system administrators at healthcare facilities or health insurance organizations.

2. Practical experience requirements for the 1-year course

Prospective students must satisfy the Professional Degree Program eligibility criteria and possess the following practical experience at the time of application.

| Eligibility criteria | Years of practical experience | Applicable practical experience |
|---|--|--|
| 4-year university graduate | 3 years or more | Practical healthcare experience at: healthcare-related administrative agencies; insurers such as health unions; healthcare facilities such as hospitals and clinics; aged care facilities; pharmaceutical industry; healthcare industry; other healthcare organizations (NPOs/ NGOs) |
| 6-year university graduate (medicine/dentistry/veterinary medicine) or master's course graduate | 2 years or more (includes physician & other clinical training) | |

Points to note:

- (1) Applicants must submit their certificate of employment as proof of the term of their employment.
- (2) Applicants who wish to maintain their employment at a government office, school, hospital, or private company during enrollment are required to submit a consent form (format optional) from their employer when completing the admission procedures according to 5(3) above, to the effect that they will remain committed to their studies while enrolled.
- (3) Examples of practical healthcare experience include: qualified physicians, dentists, veterinarians, pharmacists, or public health nurses employed by an administrative or healthcare organization for at least 32 hours/week, although other types of experience may also be admitted. To confirm whether your practical experience qualifies before submitting an application, please submit the following documents to the Graduate Student Affairs Section to arrive by Monday, 1 June 2020: A) Curriculum Vitae (be sure to include your current contact details); B) Certificate of employment. Upon confirmation of the submitted documents, prospective applicants will be directly notified of the results in advance of the application period.

3. Entrance exam subjects (Revised on May 26, 2021) Please check the attachment D too.

| Exam-subject | Content | Remarks |
|---------------------|--|---|
| Foreign Language | English (4 questions) | Dictionaries not permitted. |
| Specialized Subject | ① General health sciences/social-medicine | Basic questions about health-sciences & social medicine (40 multiple-choice questions) |
| | ② General Statistics | Basic questions about Statistics (20 multiple-choice questions) |
| | ③ Choose 4 out of the following specialized fields: <ul style="list-style-type: none"> <li style="color: red;">– Epidemiology <li style="color: red;">– Medical statistics <li style="color: red;">– Preventive medicine <li style="color: red;">– Health education <li style="color: red;">– Mental health <li style="color: red;">– Medical ethics <li style="color: red;">– Medical law <li style="color: red;">– Public health survey methodology <li style="color: red;">– Biomedical Informatics | All-essay questions. Preventive medicine includes health management. |
| Short essay | Write an essay on a public health issue and measures to deal with it based on your practical experience. | Essay will be used in the oral exam. |

Details of the entrance exam schedule and venue will be provided in the 'Examinee Guidelines' posted with the Exam Card after submission of applications.

4. Guidance for Prospective Students

The School of Public Health will provide guidance for prospective students as follows:

Date: 3:00 - 5:30 p.m. Saturday, 6 June 2020

Venue: For this year, it will be held online. Please check the following website for further information.

<http://www.m.u-tokyo.ac.jp/daigakuin/apply/appguidemain.html#3>

5. Benefit from Japanese government employment agency

The School of Public Health is

Outline of the curriculum

| Subject | Description | Credits |
|---|--|---------|
| Epidemiology Research & Practice | In addition to lectures on basic epidemiological research methodologies, students learn through case studies of the problems which arise when putting these methodologies into practice, as well as ways to overcome them. The core themes of this subject are: epidemiological thought; demonstrating causative relationships; understanding disease onset and ensuring reliability; introduction to epidemiological research design; bias and error variance; controlling bias, particularly confounding; role of statistical analysis; research ethics & consent/protection of privacy; genetic epidemiology; research outcome feedback; and preventive medicine etc. | 2 |
| Preventive Health Practice & Assessment | Students learn primarily through case studies about practical initiatives linked to occupational & community preventive health based on member feedback of medical checkup results and epidemiology research outcomes. The core themes of this subject are: setting and evaluation of health objectives; development of implementing organizations & allocation of roles/costs; obtaining member consent & information feedback/communication; privacy & protection of personal information; occupational health initiative case studies (role of occupational health physicians); community health initiative case studies (role of public health nurses) etc. | 2 |
| Statistical Analysis of Medical Data | By learning about medical research design, statistical hypothesis testing & confidence intervals, sample size design, contingency table data analysis, regression & correlation, stratified analysis, model-based analysis, survival analysis, and multivariate analysis techniques, students acquire the basic knowledge and practical abilities required for statistical analysis of medical data. | 2 |
| Medical Statistics Exercise | Students learn about the main statistical methods covered in 'Statistical Analysis of Medical Data' using actual cases with JMP statistical software. Students also conduct a group work of statistics exercise using an open-data eStat (https://www.e-stat.go.jp/), then improve their understanding of the results through presentation and debate. | 2 |
| Medical Research Design | This subject comprises lectures on epidemiological research & clinical trial design and actual research management, as well as case studies. The aim is to equip students with the basic knowledge required to understand studies published in key journals, and to hone their protocol drafting skills as well as the ability to participate in a research office through teamwork. The core themes of this subject are: research design types & characteristics; standardization of measurements; epidemiological research design (bias control & sample size determination etc.); clinical trial methodology (randomization & assignment, endpoint determination, interim analysis, statistical analysis principles, sample size determination, ICH guidelines etc.); introduction to sample surveys; protocol preparation; quality control & quality assurance; data management; drafting of academic papers & CONSORT statements; research cost estimation and research management etc. | 2 |
| Clinical Epidemiology | Subjects of clinical epidemiological studies exist in clinical practice. Researchers must find out research questions in clinical practice, make a study hypothesis and an appropriate study design, make statistical analyses with available data and make clinically valid interpretation of the results. The course provides theories and practical skills of clinical epidemiology that are essential for implementing clinical studies. | 2 |
| Clinical Epidemiology Exercise | The course provides hands-on training to help students write their research protocols for fund application through lectures and tutorials. The course also provides how to write medical literature. | 2 |
| Healthcare Economics | The course provides basic knowledge about health economics and basic methods for health economic analyses. Through lectures and group debates, students learn how to apply theories of health economics to actual health policy issues. | 2 |

| Subject | Description | Credits |
|--|---|---------|
| Health Communication | The course overviews major areas and topics of health communication including interpersonal communication in healthcare settings to media communication, and introduces current research, practice and education in health communication. Students learn basic theories and methodologies as well as methods of analysis and evaluation in health communication. | 2 |
| Seminar in Health Communication | Students practice skills for health communication to learn practical applications of the theories and methodologies introduced in Health Communication lecture, and to learn how to make effective health communication in various health settings including healthcare institutions, government, academic and educational institutions, patient organizations, and mass media. | 2 |
| Seminar in Healthcare Technology Assessment | This three-day intensive seminar will provide hands-on training to conduct health technology assessment, e.g. measurement of direct and indirect cost, benefit as is expressed in quality adjusted life years and utility, and modeling decision trees, and calculating incremental cost-effectiveness ratio with sensitivity analysis. | 1 |
| Seminar in Healthcare Organization Management | The course is composed of lectures on accounting, human resource management, risk control, and strategic building, complemented by case method using a case scenario of actual hospital management. Students with clinical experience >3 years will be accepted. | 2 |
| Introduction to Clinical Medicine | The course will provide lectures on basic knowledge about clinical medicine including anatomy, physiology, diagnosis and treatment. | 1 |
| Medical research data management and CDISC standards | The course provides the overview of CDISC (Clinical Data Interchange Consortium) Standards, which are determined be obligatory to regulatory new drug submission in Japan, U.S.A, and EU, and will be widely used for medical research data collection, exchange, archiving, etc. in medical research in general besides regulatory clinical research around the world. | 1 |
| Cancer Epidemiology | To be Announced | 1 |
| Mental Health I | The course provides epidemiology of mental disorders in Japan and other countries, methodology to assess mental health, and current evidence for primary, secondary & tertiary prevention of mental disorders. Students will learn about collaboration and leadership with group members, and exercise to develop mental health measures. | 2 |
| Mental Health II | Students learn about occupational mental health, its history & present status, relevant legislation, guidelines & systems; basic theory of occupational stress; evidence-based effective primary, secondary & tertiary prevention methods, planning, and program evaluation methods. After examining case studies on mental health policy planning based on workplace characteristics, students engage in debate on specific ways to promote said policies. | 2 |
| Health Education | This first half of the course provides theoretical basis for understanding health-related behaviors and designing health educational intervention programs at micro and macro levels. Through in-class discussion, students will critically read a presumed view of human and society, strength, and limitations of each theory. The latter half of the course applies theories to real settings in workplace, community, healthcare settings, and school. | 2 |
| Health Sociology | The course provides a showcase of sociological theories of health and medicine, to encourage students to critically consider roles and meanings of health, illness, and medical/public health activities in societal context. | 2 |
| Biomedical Ethics I | Students consider ethical & philosophical approaches which form the basis of ethical judgments in public health policymaking as well as clinical practice. Areas covered include: introduction to biomedical ethics & history; political philosophy; allocation of medical resources; and informed consent. These topics are addressed in lectures and small-group debates. | 2 |
| Biomedical Ethics II | This subject expands upon the topics covered in 'Biomedical Ethics I'. Students read and interpret important literature in the fields of law & morality, rights theory, confidentiality, medical futility, and meta-ethics. | 2 |

| Subject | Description | Credits |
|---|---|---------|
| Society and Health I | This lecture series provides a broader context of social determinants of health (SDH) including education, poverty, social isolation, living arrangements, social networks, income inequality, and social capital. Currently available theoretical and empirical evidence on SDH will be reviewed and its strengths and challenges will be discussed. | 2 |
| Society and Health II | This course expands the discussions in Society and Health I to more practical and political contexts. Course activities include case-oriented discussions, students' group-based presentations on 5 topics on health equity issues and a health impact assessment workshop. | 2 |
| Theory and practice of occupational health | This class provides updated information of recent trends and global perspectives in occupational health. Also students learn basis of practical skills to pursue occupational health activities at workplace, through case studies and exercises. | 2 |
| Human Resource Development for Health | Participants will be able to learn human resource development for health (health professional education) based on principles related with education and learning through plenary and small group discussion. | 2 |
| Assessment in Health Professional Education | In human resource development for health areas, participants will be able to learn learner assessment, which is closely related with licensing and mastery of learning contents, including principles of statistics and psychometrics. | 2 |
| Japanese Medical Care and Community and Global Health | To be Announced | 1 |
| Health Policy | Using several cases related to healthcare policymaking & management, such as prevention and health promotion, access to healthcare, health insurance reimbursement systems, and health policy-making process, this subject provides students with a systematic understanding of various stakeholder perspectives, relevant social systems, funds procurement, and their management. | 2 |
| Healthcare Informatics | This subject consists of lectures on healthcare data management, data coding & classification, information technology basics & standardization, data processing techniques, healthcare information system & network technology basics and operation, healthcare information protection & security, and healthcare information system management etc. | 2 |
| Healthcare Informatics Exercise | The exercise covers practical healthcare data management & data coding techniques, data processing techniques, and database system design, etc. through using actual patient registry system. | 1 |

| Subject | Description | Credits |
|---|--|---------|
| Forensic Medicine & Medical Law | Participants will learn the topics about forensic medicine in Japan and other countries, especially, the death investigation system, issues in medical malpractice and clinical forensic medicine. | 2 |
| Forensic Medicine & Medical Law Exercise | In this exercise, student may take part in the research program performed by the department of forensic medicine. For example, they can conduct a research related to child death review. | 2 |
| Public Health Preparedness | This subject teaches students the basics of responding to health risk outbreaks through case studies of typical past cases on: field epidemiological survey methods to deal with health risks such as a new type of influenza, coronavirus infection, and bioterrorism; public health surveillance; identification of the causes of disease outbreaks; and planning, implementation & assessment of countermeasures. | 1 |
| Health Administration & Public Health Preparedness Exercise | In this exercise, students learn planning, implementation and evaluation of actual countermeasures against various diseases, organizational and preparedness management in public health practice, and the roles of the public health officers, by visiting actual health administration environments. | 2 |
| Environmental Health | This course introduces students to environmental health perspectives on how environmental factors influence human health at individual and population levels. Students will understand basic concepts and methods to assess environmental exposures and health effects. Studies for specific environmental factors (air pollution, water pollution, weather and climate variability) associated with health will be covered and discussed in the course. | 1 |
| Public health informatics | Students learn the basics of public health informatics. To that end, the subject focuses on geographical information system, infection surveillance system and disease registration system associated information processing techniques. | 2 |
| Public health informatics Exercise | In this exercise, students learn about practical public health information engineering through case studies on geographical information system using R. | 2 |
| Methods for Environmental Health Research | This course introduces students to the advanced methodologies to investigate the short-term effects of environmental risk factors on human health. It will provide basic concepts, study designs and statistical regression models using time-series data that have been widely used and intensively developed for the last few decades in the field of environmental epidemiology. Students will be able to interpret time-series data and regression models and acquire skills to apply the methodologies through hands-on practice using R. | 1 |
| Comparative Healthcare Systems in Asia | To be Announced | 2 |
| Internship | Students attend public health facilities (public health research & testing facilities, think tanks, NPOs, healthcare facilities etc.) and leverage their subsequent practical experiences to develop skills in identifying personal initiatives, conducting analysis, and planning measures/policies. | 2 |
| Advanced Public Health Theory | This subject enables students to better understand the nature of health science contributing to public welfare, as well as the accompanying research & practical issues which need to be overcome, by addressing specific approaches and challenges from each of the School of Public Health's research fields which constitute a contact point between public policy & activity. | 2 |
| Themed Research | Under the guidance of their research supervisor, students acquire advanced problem-solving capabilities through practical tasks such as fieldwork, data collection, analysis, statistical analysis and essay writing on a particular research theme. | 6 |

Tips for Preparing the Application Form

Application Form (front side)

- **Course of your choice:** Tick your choice, either One-Year course or Two-Year course.
Those who wish to take the one year course can change to the two year course (maximum of two years study), and can also request assessment (i.e., pass/fail) for both courses. If you would like to apply for both courses, tick the column on the right corner. If there is no tick, your application shall NOT be screened for the Two year course.
- **Name:** Fill in your name in both フリガナ (in Japanese phonetic writing) and 英字氏名 (in English). Regarding your name in English, write down your name in accord with name in your passport.
- **Curriculum Vitae:** The CV should only contain details of university onwards (if you transferred to university from a junior college, etc. write the details of the college on the bottom line of the CV section). Applicants who have completed studies in a foreign country should fill in the 'Educational background in foreign countries' section.
- **Employment history:** If you cannot write your employment history in the space provided, write 'see attachment' and attach an A4 page outlining your entire work history.
This section should only include details of full-time positions.
* Resident physician experience should be listed as '(residency)', while part-time medical personnel experience should be listed as '(part-time)'.
- **License:** If applicable, tick(✓) in the box of the license (医師=doctor, 薬剤師=pharmacist, 保健師=health nurse). If you have other medical license, please tick “その他” and write it down.

Application Form (back side)

- **Email:** Please make sure that you provide your email address or mobile phone number so that we can contact you in the event of any problems with your application documents.
- **Emergency contact:** If this is the same as the 'Current address' section, place a tick (✓) in the box beside 'Same as current address'.
- **Student ID/ Researcher ID:** These sections should only be filled out by the University of Tokyo students.

Photo Card, Admission Ticket

- **Course of your choice:** Write down your choice, either One-Year course or Two-Year course.
- **Name:** The name appearing on the *Photo Card II* (which doubles as the backing for the Student ID card) will be used when preparing your Student ID if you are admitted, so please print legibly.
- **Backing paper for attaching Form C:** Remove the adhesive seal and attach Form C (Certificate of Transfer Receipt; “Furikomi-kinn Uke-tsuke Shomei-sho”).

Others

- Regarding the envelope marked “Exam Card Enclosed” (*jyukenhyou zaichu*; 受験票在中) in the application documents, when you live outside Japan, make sure to enclose enough IRC, International Reply Coupon, by referring to Japan Post website so that your Exam Card shall arrive. (Japan Post https://www.post.japanpost.jp/index_en.html).

Inquiry

Regarding the Graduate School of Medicine's entrance examination, contact:
Graduate Student Affairs, Faculty of Medicine, the University of Tokyo

Email: in[at]m.u-tokyo.ac.jp

Website: <http://www.m.u-tokyo.ac.jp/daigakuin/apply/appguidemain.html>
(Graduate school entrance exam information)

How to Purchase Previous Graduate School of Medicine Exams

Previous entrance exam questions for the Graduate School of Medicine can be obtained from the Tokyo Society of Medical Sciences (TSMS).

I. List, type, and cost of previous exam questions

II. How to purchase

① To purchase directly from TSMS: see TSMS map and business hours below.

② For delivery by postal mail: see 'How to fill out the Payment Transfer Form' below.

I. List of previous exam questions

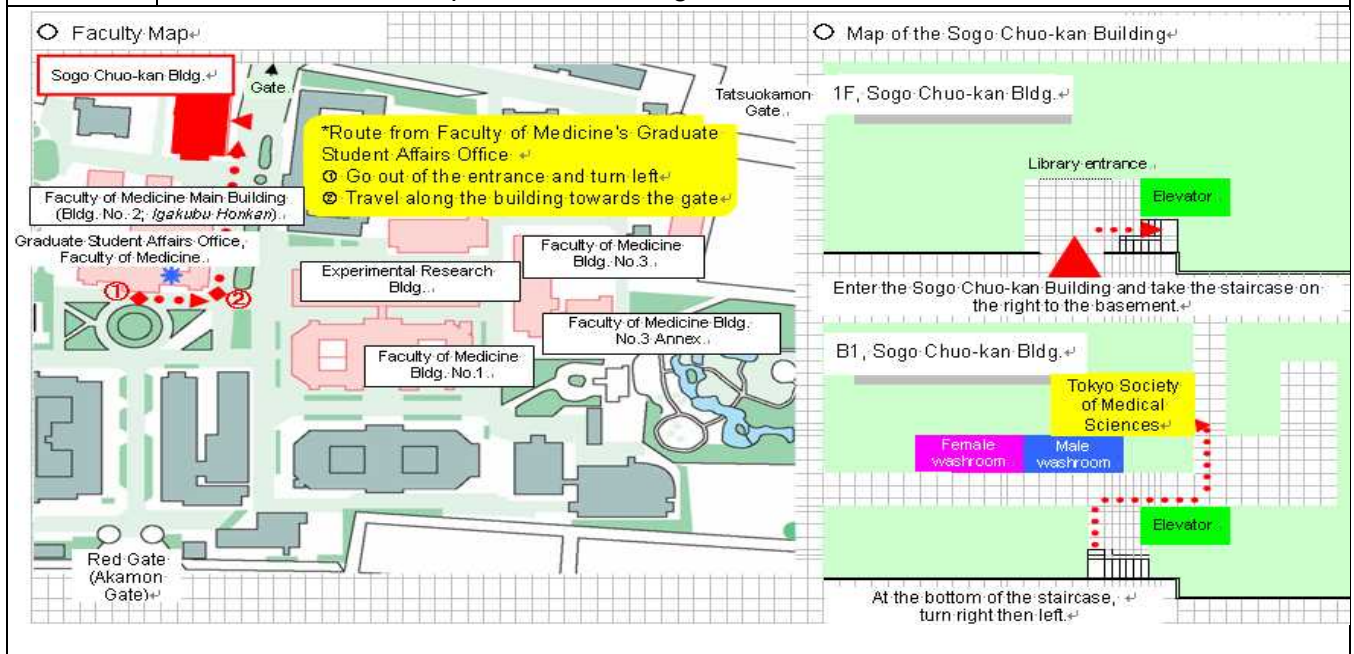
Graduate School of Medicine List of previous exam questions (no minimum purchase volume)

| Program/ Course | Year of Admission | Price |
|---|-------------------|--------------|
| Doctor of Medicine | 2013 – 2020 | ¥1,100/ year |
| Doctor of Health Sciences & Nursing (Exam. in Feb.) | 2013 – 2020 | ¥330/ year |
| Doctor of Health Sciences & Nursing (Exam. in Aug.) | 2012 , 2014, 2017 | ¥330/ year |
| Master of Medical Science | 2014 – 2021 | ¥330/ year |
| Master of Health Sciences & Nursing | 2013 – 2020 | ¥1,100/ year |
| Master of International Health | 2013 – 2020 | ¥440/ year |
| Master of Health Sciences & Nursing (Public Health Nursing Course & Nursing Course) | 2013 – 2020 | ¥330/ year |
| School of Public Health (SPH; professional degree course) | 2013 – 2020 | ¥1,100/ year |

II. How to purchase

① To purchase directly from TSMS:

| | |
|----------------|--|
| Distributor | <p>Tokyo Society of Medical Sciences: B1, Igakubu Sogo Chuo-kan, Faculty of Medicine, the University of Tokyo (see map below)</p> <p>Tel: 03-5841-3681 Fax: 03-3816-3287 Email: igakukai@m.u-tokyo.ac.jp</p> <p>Website: http://square.umin.ac.jp/igakukai/02toppage/toppage.html</p> |
| Business hours | <p>10:00 a.m. - 12:00 p.m. and 12:30 p.m. – 4 : 45 p.m. on weekdays (except when the library is closed)</p> <p>* The office may be closed on Saturdays, Sundays and Holidays.</p> <p>Please confirm it is open before visiting.</p> |



THE UNIVERSITY OF TOKYO (Graduate Schools) How to make a Payment of Examination Fee by Credit Card

24 hours a day, 365 days a year, you can pay anytime! Easy, Convenient and Simple!

You can make a payment with your Credit Card



Web Application -- Credit Card Transaction

Access

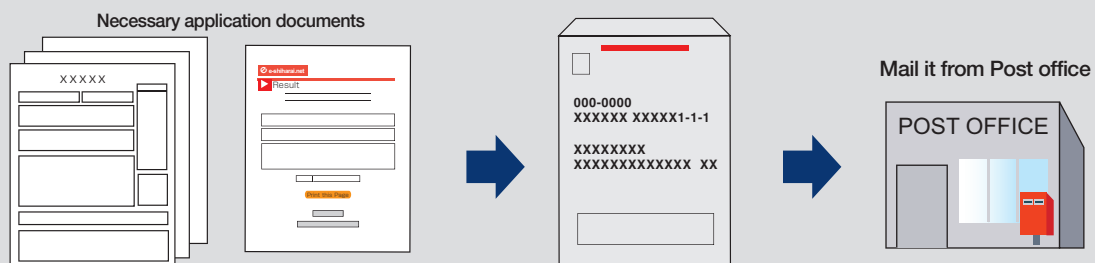
<https://e-shiharai.net/english/>



You can access from our website too!

- | | |
|--|--|
| 1. Top Page | Click "Examination Fee". |
| 2. Terms of Use and Personal Information Management | Please read the Terms of use and Personal Information Management. Click "Agree" button located in the lower part of this page if you agree with these terms. Click "Not agree" button located in lower part of this page if you do not agree with these terms. |
| 3. School Selection | Click "The University of Tokyo (Graduate Schools)". |
| 4. School Information | Read the information carefully and click "Next". |
| 5. Category Selection | Choose First to Fourth Selection and add to Basket. |
| 6. Basket Contents | Check the contents and if it is OK, click "Next". |
| 7. Basic Information | Input the applicant's basic information. Choose your credit card and click "Next". |
| 8. Credit Card Information | Input Credit Card Number (15 or 16-digits), Security Code and Expiration date. |
| 9. Application Result | All of your application information is displayed. Check and Click "Confirm". |
| 10. Credit Card Payment Completed | Click "Print this page" button and print out "Result" page. |

Enclose the printed "Result" page in an application envelope with other necessary application documents.



Application

[NOTICE/FAQ]

- During payment periods and application periods mentioned in the application documents, you can make a payment anytime. Please confirm from application documents and complete payment in time for the application period.
- On the last date of the payment period, please finish card settlement procedure by 11:00pm Japan time.
- A fee is added to Examination fee. For further info, please visit our website.
- Please note that refund is not possible once you have made a payment of Entrance examination fee.
- It is possible to use a card which carries a name different from that of the applicant. However, please make sure that the information on the basic information page is the applicant's information.
- If you did not print out "Result" page, you can check it later on Application Result page. Please enter "Receipt Number" and "Birth Date" to redisplay.
- Please directly contact the credit card company if your card is not accepted.

For questions or problems not mentioned here, please contact :

E-Service Support Center Tel : +81-3-5952-9052 (24 hours everyday)