

**International Christian University**  
**Graduate School of Arts and Sciences**  
**Graduate School code: 10C**

**Web site:** <http://www.icu.ac.jp/en/gs/>

(Guidebook:

[http://digitalmax.ecocat-cloud.com/lib/ecolab/export/31aa2969\\_fd5cd7ca/book\\_swf.php?bid=2162&startpage=1&url=http://digitalmax.ecocat-cloud.com/&key=7c797a3cd2a88033117b207ecff73f9a&callback=afterComp](http://digitalmax.ecocat-cloud.com/lib/ecolab/export/31aa2969_fd5cd7ca/book_swf.php?bid=2162&startpage=1&url=http://digitalmax.ecocat-cloud.com/&key=7c797a3cd2a88033117b207ecff73f9a&callback=afterComp)

1. Graduate School code	10C	
2. Maximum number of participants	Participants per year: Maximum of 2-3 participants	
3. Fields of Study	■Environmental Science, ■Engineering, ■Agriculture (incl. Fisheries)	
Sub Fields	<b>【Engineering】</b> Electronic materials / Electric materials / <b>【Environmental Science】</b> Environmental dynamic analysis <b>【Agriculture】</b> Animal physiology / Animal behavior / Aquatic life science / Molecular biology / Plant molecular biology / Plant physiology / Environmental agriculture(including landscape science)	
4. Program and Degree	<b>Program</b>	Natural Sciences Program
	<b>Degree</b>	Master of Arts in Natural Sciences
5. Standard time table (Years needed for graduation)	2 years (or minimum of 6 trimesters)	
6. Language of Program	(1) Lectures: In principle, all lectures offered in English. (2) Textbooks and Materials: All materials for the course offered in English are in English. Those materials in Japanese may be translated, or explanations in English will be provided. (3) Seminars: All seminars will be conducted in English. (4) Thesis Supervision: MA theses are supervised in English. (5)Bilingual Communication: All faculty and staff concerned can speak and understand English and Japanese.	
7. Desirable English level and Necessary Academic background	<b>Linguistic Ability</b>	An official score of English proficiency exam results (TOEFL, IELTS or TOEIC) is required. Desirable scores are 79 for TOEFL (iBT); 550 for TOEFL (PBT- ITP); or 6.5 for IELTS.
	<b>EJU, IELTS, GRE or else</b>	6.5 for IELTS
8. Prior Inquiry From Applicants	(1)At least 16 years of academic background or equivalent or (2)Three years or more of program at universities or equivalent education institutions in	

<b>(Before Submission of Application Documents)</b>	countries other than Japan and awarded an overseas degree equivalent to bachelor's degree													
<b>9. Website</b>	<p>(1) ICU Graduate School of Arts and Sciences <a href="http://www.icu.ac.jp/en/gs/">http://www.icu.ac.jp/en/gs/</a></p> <p>(2) International Christian University <a href="http://www.icu.ac.jp/en/">http://www.icu.ac.jp/en/</a></p> <p>(3) Syllabus <a href="http://www.icu.ac.jp/en/liberalarts/list_syllabi/index.html">http://www.icu.ac.jp/en/liberalarts/list_syllabi/index.html</a></p>													
<b>10. Professors and Associated Professors</b>	<table border="1"> <tr> <td data-bbox="309 560 544 629"><b>Name</b></td> <td data-bbox="553 560 1517 629"><b>Research Subject, Contact (e-mail), Special message for the Future students</b></td> </tr> <tr> <td data-bbox="309 642 544 792">Graduate School Group</td> <td data-bbox="553 642 1517 792">If applicants would like to contact these professors below, please send an email to <a href="mailto:icu-jds@icu.ac.jp">icu-jds@icu.ac.jp</a>. Please see our website below for more faculty information. <a href="https://researchers.icu.ac.jp/icuhp/KgApp?Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?Language=2</a></td> </tr> <tr> <td data-bbox="309 804 544 954">Professor OKANO, Ken (Material Science)</td> <td data-bbox="553 804 1517 954">Prof. Okano specializes in Electronic materials / Electric materials. For more details, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ymiogkgkgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ymiogkgkgy&amp;Language=2</a></td> </tr> <tr> <td data-bbox="309 965 544 1196">Associate Professor MINEJIMA, Chika (Material Science)</td> <td data-bbox="553 965 1517 1196">Prof. Minejima specializes in Environmental dynamic analysis. For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yddgbomgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yddgbomgy&amp;Language=2</a></td> </tr> <tr> <td data-bbox="309 1207 544 1402">Professor KOBAYASHI, Makito (Life Science)</td> <td data-bbox="553 1207 1517 1402">Prof. Kobayashi specializes in Animal physiology / Animal behavior, Aquatic life science. For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ykigmoigy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ykigmoigy&amp;Language=2</a></td> </tr> <tr> <td data-bbox="309 1413 544 1639">Professor MIZOGUCHI, Tsuyoshi (Life Science)</td> <td data-bbox="553 1413 1517 1639">Prof. Mizoguchi specializes in Molecular biology, Plant molecular biology / Plant physiology, Environmental agriculture (including landscape science). For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yidgbgbgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yidgbgbgy&amp;Language=2</a></td> </tr> </table>	<b>Name</b>	<b>Research Subject, Contact (e-mail), Special message for the Future students</b>	Graduate School Group	If applicants would like to contact these professors below, please send an email to <a href="mailto:icu-jds@icu.ac.jp">icu-jds@icu.ac.jp</a> . Please see our website below for more faculty information. <a href="https://researchers.icu.ac.jp/icuhp/KgApp?Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?Language=2</a>	Professor OKANO, Ken (Material Science)	Prof. Okano specializes in Electronic materials / Electric materials. For more details, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ymiogkgkgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ymiogkgkgy&amp;Language=2</a>	Associate Professor MINEJIMA, Chika (Material Science)	Prof. Minejima specializes in Environmental dynamic analysis. For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yddgbomgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yddgbomgy&amp;Language=2</a>	Professor KOBAYASHI, Makito (Life Science)	Prof. Kobayashi specializes in Animal physiology / Animal behavior, Aquatic life science. For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ykigmoigy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=ykigmoigy&amp;Language=2</a>	Professor MIZOGUCHI, Tsuyoshi (Life Science)	Prof. Mizoguchi specializes in Molecular biology, Plant molecular biology / Plant physiology, Environmental agriculture (including landscape science). For further information, please see the following link: <a href="https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yidgbgbgy&amp;Language=2">https://researchers.icu.ac.jp/icuhp/KgApp?kyoinId=yidgbgbgy&amp;Language=2</a>	
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<b>11. Features of University</b>	<p>Right after World War II, a group of Christian educators in Japan and their supporters in the United States began fund-raising efforts with the hope of establishing a university based on Christian principles. Donations came from Japan, the U.S., and other parts of the world, Christians or non-Christians.</p> <p>Thanks to these endowments, ICU was established in April 1953 as the first four-year-liberal arts college in Japan. Based on the fundamental educational plan with emphasis on graduate education, Division of Education was established in 1957; Public Administration in 1963; Comparative Culture in 1976; and Natural Sciences in 1987.</p>													
<b>12. Features of Graduate School</b>	ICU's newly organized Graduate School of Arts and Sciences has begun offering a flexible array of rigorous programs in both English and Japanese since April 2010. The master's curricula have been renewed with new courses that (a) feature a distinctly unique liberal arts approach to graduate education by emphasizing practical and transferable skills, (b) offer university-wide interdisciplinary courses, and (c) promote academic and professional													

	<p>studies in interdisciplinary fields. Additionally, ICU's Graduate School faculty members are committed to and devoted to world-class professional and academic training while aiming for strong leadership with policy interests in every field. Our graduate program provides a highly rigorous and policy-oriented education according to global standards, whether research will be based domestically or globally.</p> <p>&lt; Faculty Expertise &gt;</p> <p>The diversity of interests, backgrounds, and work experiences among faculty members defines the unique and stimulating learning environment at ICU. All faculty members involved are English-speaking and hold their highest academic degree. Many of them also have work experience in international organizations such as the Asian Development Bank (ADB), the World Bank and various United Nations (UN) programs and can supplement their teaching with practical examples from their own experiences. They have a deep understanding of social and economic development issues around the world as well, and can offer individual guidance based on students' interests and needs.</p> <p>&lt; Guidance and Advisors &gt;</p> <p>Each admitted student will be assigned a fulltime faculty member as an academic advisor. The advisor works closely with the student as a mentor to develop a research plan. In the first year, students take university-wide interdisciplinary courses, foundation courses and specialization courses in their area of concentration and receive guidance for their research. In the second year, students will concentrate more on their thesis research. Students will gain more supervision in order to successfully complete a master's thesis. As part of their thesis project, students will select their two more readers for their thesis projects for obtain broader perspectives. Primary advisors and other faculty members eagerly share the common agenda of students and support and guide the students in order to aid in their education. All ICU faculty advisors hold office hours for mentoring and advising their students. These academic policies and practices are to enhance academic and personal guidance, depending on individual needs.</p>
<p><b>13 . Features and Curriculum of Program</b></p>	<p>In the Natural Sciences Program, we provide specialized training in various scientific fields, enabling students to understand their fields within the framework of science as a whole. Our goal is to nurture leaders who can help society by means of science.</p> <p>The following describes the structure and outline of the curriculum and the goals of faculty-student advising.</p> <p>(1) Graduate School-Wide Courses</p> <p>Through these courses students acquire very basic but necessary knowledge and skills for research in experimental and theoretical areas in the Graduate School's master's program. In addition, the course "Writing for Researchers" helps graduate students successfully engage in research publication requirements of their chosen discipline, including such topics as required content, information ordering and data analysis.</p> <p>(2) Foundation Courses</p> <p>In these courses, several contemporary topics of scientific research will be discussed followed by students' presentations and reports. Students will add significant depth to their understanding through past issues and an awareness of present and future challenges.</p> <p>(3) Specialization Courses</p> <p>These courses provide students with the deeper understanding of selected topics.</p>

	<p>(4) Research Guidance Senior students, under the guidance of an advisor, will select a subject related to their area of specialization and prepare a master's thesis. The final product should represent the efforts of one year of sustained and rigorous thinking, research, and writing.</p> <p>(5) Foundation Courses and Specialization Courses in Related Fields Students can take courses not only in their research field but also in related fields to their research. It enables students to acquire various perspectives which can resolve interdisciplinary issues.</p> <p>Please see the attached course list. 30 credits are required as follows. 2 credits (1 course) from Graduate School-Wide Courses 4 credits (2 courses) from Program Foundation Courses 8 credits (4 courses) from Specialization Courses in each area of concentration 6 credits of Research Guidance 6 credits (3 courses) from any Foundation or Specialization Courses in Related Field or Research Guidance 4 credits (2 courses) from any Graduate School courses</p> <p>Please see our website for course information. <a href="https://campus.icu.ac.jp/public/ehandbook/CourseList.aspx?lang=E">https://campus.icu.ac.jp/public/ehandbook/CourseList.aspx?lang=E</a></p>
<p><b>14 . Academic Schedule</b></p>	<p>Please refer to the following website for the details: <a href="http://www.icu.ac.jp/en/about/calendar/index.html">http://www.icu.ac.jp/en/about/calendar/index.html</a></p>
<p><b>15. Supporting service to International Students</b></p>	
<p><b>International Students Support Center for Consulting or counseling about daily life, campus life, cross-cultural adjustment etc.</b></p>	<p>(1) All administrative units at the university (e.g., Graduate School Group, Student Affairs Group, and Educational Affairs Group) work closely and provide relevant logistical support. Because of our university-wide bilingual policy on campus, all international students are entitled to receive necessary support from all personnel.</p> <p>(2) Bilingual staff at ICU's Counseling Center offer highly competent professional assistance in English for all students to facilitate smooth transition to ICU campus life as well as living in Japan.</p> <p>(3) Counseling At the ICU Counseling Center, English-speaking counselors are available to discuss psychological issues with students and help them deal with other personal concerns at the university.</p> <p>(4) Human Rights Consultation ICU maintains a system consisting of a Human Rights Committee and Human Rights Counselors in order to conduct counseling and educational activities with regard to human rights.</p> <p>(5) Health Services Consisting of the university physician and nurses who can speak English, the Health Care Office (HCO) is equipped for the health of students, faculty and staff, as well as for campus</p>

	environmental health conditions and health education programs.
<b>Provision of Student Dormitory</b>	ICU has several dormitories for Graduate Students in the Student Life Zone on campus and plan to open new dormitories in April of 2017. For more details: <a href="http://sag.info.icu.ac.jp/englishhome/dorm-apartment-en/gsdorm">http://sag.info.icu.ac.jp/englishhome/dorm-apartment-en/gsdorm</a>
<b>Japanese Language Education Program for International Students</b>	ICU offers a Japanese Language Program (JLP) in which students can take intensive courses depending on each student's level of Japanese proficiency. And ICU started to offer a new Japanese course especially for graduate students who wish to achieve primary level Japanese. ICU's JLP has been recognized for its excellence and prepares students to use Japanese for academic purposes.
<b>Cultural Activities</b>	ICU provides numerous opportunities to get involved in the local community. Our homestay programs with Japanese households are very popular among international students, which are arranged by ICU Religious Center. Many participants view the homestay experience as a good opportunity to deepen their understanding of Japanese culture and to interact with Japanese people.
<b>Any special attention to Religious Practice</b>	ICU Religious Center hosts weekly Chapel Hour every Tuesday during regular academic calendar and conducts bilingual Sunday worship service in both Japanese and English. Anyone who is interested can join worship services. Also, ICU is planning to make a prayer room for our Muslim students.
<b>facilities (Library etc)</b>	(1) Library: The ICU library is one of the few open stack libraries in Japan. The library currently maintains the collections such as Books in Japanese, 432,430; Foreign books, 367,799; (as of 2016). The library also offers a variety of up-to-date multimedia services, including a study area with Internet connected PC booths, group study rooms, and multimedia rooms. (2) Sports Facilities: The sports facilities include tennis courts, soccer field, baseball field, archery range, martial arts facilities, and weight training rooms. Please refer to the website for more details: <a href="http://www.icu.ac.jp/en/about/campus/index.html">http://www.icu.ac.jp/en/about/campus/index.html</a>
<b>Please state other particular supporting service you are endeavoring, if any.</b>	We started to offer new courses: "Academic English" (For 1st years) and "Academic English for Research" (For 2nd years). Each course is enrolled throughout a year. Students can develop not only their writing skill but also reading as an independent reader, discussion and presentation in English for two years. In addition, we have instituted a "writing support tutor" system for JDS fellows: one-on-one tutoring in English for students who want feedback and suggestions.
<b>16. Message to Prospective International Students</b>	
<b>Message from University</b>	[Message from the Director of Natural Sciences Program] The high faculty/student ratio in the Natural Sciences Graduate School program at ICU is a great benefit for each graduate student in their study and research. Primarily let by the main advisor, with additional input from faculty members of the student's areas of concentration and by the academic staff of the wider natural sciences program, each student receives individual attention, enabling them to maximize their potential. Small research groups allow students to gain hands-on experience using modern and expensive experimental instruments and lab space with a considerable degree of freedom. Students also have abundant time for discussion with the main advisor and supporting teaching

	<p>staff. Domestic and international joint research with other universities and research institutions is often conducted utilizing the academic networks of the teaching staff to fulfill the demands of students' research work.</p> <p>In addition to the study of their focused science area, graduate students study ethics, the philosophy of science and science education, as well as methods of professional academic research work including a course in writing a grant application. Graduate students also have opportunities to take intensive academic writing courses in either Japanese or English – whichever is not their native language – to enhance their language ability required in their future work. Students also select courses in humanities and social sciences.</p> <p>Fully-fledged with the ability to carry out frontier scientific research and a wide view of nature and human society nurtured at a liberal arts graduate school, our alumni are equipped for a great variety of job opportunities beyond the scientific/academic – in finance, education, engineering and much more.</p>
<p><b>Voice of International Students</b></p>	<p>&lt;Mr. JOHN, Joshua Dumenkosi from Zimbabwe (Natural Science Program / Material Science)&gt;</p> <p>I am studying Material Science with emphasis on photoconductive and photovoltaic applications. This program involves extensive research, experimental work and critical analysis of results. I am researching on the applications of Amorphous Selenium as a material for photovoltaic and photoconductive devices. Recent advances have shown that Amorphous Selenium can be doped with impurity materials through a simple process of electrolysis. This has the effect of significantly improving the performance of the material in photovoltaic and photoconductive applications. My aim is to optimize the electrolysis driven doping process. If successful, the results will open doors to advanced uses of Amorphous Selenium in photovoltaic and photoconductive applications.</p> <p>Being able to study at the ICU Graduate School is a huge privilege. For me, it is a great opportunity to study in an international environment where I get to meet people from all over the world and share together in an exciting learning experience. The Graduate School is staffed by a team of highly qualified and experienced, yet approachable and friendly world class professors, teaching staff and administrators. This team is always available to provide guidance and support when I need it, making my studies enriching and enjoyable.</p>