

**Web site:** <http://www.toyo.ac.jp/site/english-glsc/>

1. Graduate School code	51	
2. Maximum number of participants	3 Participants per year	
3. Fields of Study	<input type="checkbox"/> Environmental Science <input type="checkbox"/> Marine Science <input type="checkbox"/> Meteorology <input type="checkbox"/> Natural Disaster/ Disaster Prevention Science <input type="checkbox"/> Tourism <input type="checkbox"/> Politics <input type="checkbox"/> Economics <input type="checkbox"/> Sociology <input type="checkbox"/> Education <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Agriculture (incl. Fisheries) <input type="checkbox"/> Geology <input type="checkbox"/> ICT <input type="checkbox"/> Medical Science <input checked="" type="checkbox"/> Others( Natural sciences )	
Sub Fields	Irrigation, Water and Soil Management, Crop Science, Biochemistry, Microbiology, Food Science, Marine Fisheries Science	
4. Program and Degree	<b>Program</b>	Life Sciences Program / Master's Degree in Life Sciences
	<b>Degree</b>	Master's Degree in Life Sciences
5. Standard time table (Years needed for graduation)	First 6 months as a Research Student and subsequent 2 years as a Master's Student after passing the entrance examination.	
6. Language of Program	(1) Lecture: All lectures are taught in English. (2) Text: English language materials are mostly used with some occasional use of Japanese language materials. (3) Laboratory work: Supervisors conduct instructions in English. Safety instructions in English are provided. (4) Seminar: Discussions among students in a small class setting are generally in Japanese, but when possible, foreign students are highly encouraged to use English for participation in discussions.	
7. Desirable English level and Necessary Academic background	<b>Linguistic Ability</b>	TOEFL IBT: 80, PBT: 550 is required
	<b>EJU, IELTS, GRE or else</b>	At least 16 years of academic training or equivalent
8. Prior Inquiry From Applicants (Before Submission of Application Documents)		
9. Website	(1) Graduate School of Life Sciences <a href="http://www.toyo.ac.jp/site/english-glsc/">http://www.toyo.ac.jp/site/english-glsc/</a> (2) Toyo University <a href="http://www.toyo.ac.jp/site/english/">http://www.toyo.ac.jp/site/english/</a>	
10. Professors and Associated Professors	<b>Name</b>	<b>Research Subject, Contact (e-mail), Special message for the Future students</b>
	DOKYU, Noriyuki	Application of organic solvent tolerant bacteria and enzymes. <b>【Contact (e-mail)】</b> dokyu@toyo.jp

	Professor (male)	
	FUJIMURA, Makoto Professor (male)	Mode of action of fungicides and new targets discovery for fungicide design using fungal genomics and chemical genetics. Development of PCR-based methods for detection and quantification of plant pathogens. Gene regulation in response to stress and during fungal differentiation. <b>【Contact(e-mail)】</b> mfujimura@toyo.jp
	HASEGAWA, Teruaki Professor (male)	Design, synthesis, and functional analysis of artificial glycoconjugate materials with amplified affinities towards carbohydrate-binding proteins (lectins) <b>【Contact(e-mail)】</b> t-hasegawa@toyo.jp
	HIGASHIBATA, Hiroki Associate Professor (male)	Studies on thermoadaptation mechanism of biomolecules from hyperthermophilic microorganisms. <b>【Contact(e-mail)】</b> higashibata@toyo.jp <a href="http://researchmap.jp/higashibata/?lang=english">http://researchmap.jp/higashibata/?lang=english</a>
	HIROTSU, Naoki Associate Professor (male)	Physiological analysis of photosynthesis. Genetic improvement of grain production in rice. <b>【Contact(e-mail)】</b> hirotsu@toyo.jp <a href="http://researchmap.jp/hirotsunaoki">http://researchmap.jp/hirotsunaoki</a>
	ICHIISHI, Akihiko Professor (male)	Understanding of molecular mechanisms underlying DNA repair and its regulation in filamentous fungi. <b>【Contact(e-mail)】</b> akihiko@toyo.jp
	ITO, Masahiro Professor (male)	Basic science and application for alkaliphilic microorganisms <b>【Contact(e-mail)】</b> Masahiro.ito@toyo.jp <a href="http://www2.toyo.ac.jp/~ito1107/">http://www2.toyo.ac.jp/~ito1107/</a>
	KAMIJO, Kenichi Professor (male)	Statistical Quality Control, Complex System, Chaos and Fractals <b>【Contact(e-mail)】</b> kamijo@toyo.jp <a href="http://www2.toyo.ac.jp/~kamijo/">http://www2.toyo.ac.jp/~kamijo/</a>
	KASHIWADA, Shosaku Professor (male)	Fish Aquatic Eco-Toxicology, Environmental Chemistry, Nanotoxicology, and Molecular Eco-Toxicology. I have been investigating ecological impacts of environmental pollutants in aquatic ecosystem using knowledge of biology, pharmacology, medical sciences,

		<p>ecology, and chemistry for at least two decades. My research's final goal is to elucidate and/or find out any anthropogenetic implication on ecological evolution by environmental pollution, indeed to contribute to environmental conservation from human activity.</p> <p><b>【Contact(e-mail)】</b> kashiwada@toyo.jp</p> <p><b>【Special message for the Future Students】</b> For all students, to make your country be clean, fine, well balanced and managed environment is the one of the strongest criteria. Imagine how you can contribute to your country and work there with your knowledge from Japan. I will ask you to work hard in my lab. You are welcome!</p> <p><a href="http://www.aqua-env.org/Research/Medaka/">http://www.aqua-env.org/Research/Medaka/</a></p>
	<p>KAWAGUCHI, Hideo Professor (male)</p>	<p>Behavioral Neuroscience:</p> <ul style="list-style-type: none"> <li>· Correlation between behavior and social relationship</li> <li>· Correlation between handwriting and mental health</li> </ul> <p><b>【Contact(e-mail)】</b> hkawaguchi@toyo.jp</p>
	<p>KOJIMA, Nobuhiko Professor (male)</p>	<p>Mechanisms underlying synaptic plasticity and learning &amp; memory: From molecules to animal behavior</p> <p><b>【Contact(e-mail)】</b> kojima033@toyo.jp</p>
	<p>MIURA, Takeshi Associate Professor (male)</p>	<p>Isolation of new microorganisms with useful functions</p> <p><b>【Contact(e-mail)】</b> t-3ura@toyo.jp</p>
	<p>NAGASAKA, Seiji Professor (male)</p>	<p>Analysis of iron uptake and translocation mechanism in graminaceous plants using molecular and morphological biology.</p> <p><b>【Contact(e-mail)】</b> nagasaka@toyo.jp</p>
	<p>NARUMI, Issay Professor (male)</p>	<p>Research works related to radiation biology:</p> <ol style="list-style-type: none"> <li>(1) DNA repair mechanisms of radioresistant bacteria</li> <li>(2) microbial mutation breeding using quantum beams.</li> </ol> <p><b>【Contact(e-mail)】</b> narumi@toyo.jp</p>

		<p><a href="http://www2.toyo.ac.jp/~narumi/index_en.html">http://www2.toyo.ac.jp/~narumi/index_en.html</a></p> <p><a href="http://www.researchgate.net/profile/Issay_Narumi">http://www.researchgate.net/profile/Issay_Narumi</a></p> <p><b>【Special message for the Future Students】</b></p> <p>You are expected to develop your intuitive ability and enhance insight through the study in this lab.</p>
	<p>NEDACHI, Taku</p> <p>Professor</p> <p>(male)</p>	<p>(1) Molecular basis of frontotemporal dementia and related disorders (Especially focus on novel growth factor, progranulin).</p> <p>(2) Nutrient- and exercise-dependent regulation of skeletal muscle cell function.</p> <p><b>【Contact(e-mail)】</b></p> <p>nedachi@toyo.jp</p> <p><b>【Special message for the Future Students】</b></p> <p>Many exciting opportunities are available to students who are interested in neuronal and skeletal muscle cell biology.</p> <p>Studies on nutrition science and exercise physiology are also welcome. Please visit our website for more details.</p> <p><a href="http://www2.toyo.ac.jp/~nedachi/top_en.html">http://www2.toyo.ac.jp/~nedachi/top_en.html</a></p>
	<p>OHTANI-KANEKO,</p> <p>Ritsuko</p> <p>Professor</p> <p>(female)</p>	<p>(1)Biology dealing with animals.</p> <p>(2) Neurobiology including neurodevelopmental as well as neurodegenerative disorders and sexual differentiation of the brain.</p> <p>(3) Biological analysis of endocrine disruptors using cultured cells.</p> <p><b>【Contact(e-mail)】</b></p> <p>r-kaneko@toyo.jp</p> <p><b>【Special message for the Future Students】</b></p> <p>Let's study hard together and take a master's degree!</p> <p><a href="http://www2.toyo.ac.jp/~r-kaneko/member.html">http://www2.toyo.ac.jp/~r-kaneko/member.html</a></p> <p><a href="https://www.researchgate.net/profile/Ritsuko_Ohtani-Kaneko/">https://www.researchgate.net/profile/Ritsuko_Ohtani-Kaneko/</a></p>
	<p>SHIMIZU, Bun-ichi</p> <p>Professor</p> <p>(male)</p>	<p>Biochemistry and molecular biology of plant secondary metabolism.</p> <p><b>【Contact(e-mail)】</b></p> <p>bsimz@toyo.jp</p>
	<p>TAKEI, Hiroyuki</p> <p>Professor</p> <p>(male)</p>	<p>Optical detection methodologies for biomolecules such as surface-enhanced Raman spectroscopy, localized surface plasmon resonance sensing, and surface-enhanced fluorescence detection.</p>

		<p>Microfluidic devices for bioanalytical detection.</p> <p><b>【Contact(e-mail)】</b></p> <p>h_takei@toyo.jp</p> <p><b>【Special message for the Future Students】</b></p> <p>Our course is intended for those who are interested in combining knowledge in bioanalytical and optical detection techniques. Prior exposure to electromagnetism at an undergraduate level is necessary.</p>
	<p>UMEHARA, Mikihisa</p> <p>Professor</p> <p>(male)</p>	<p>Plant physiology: physiological roles and biosynthetic pathway of plant hormones.</p> <p><b>【Contact(e-mail)】</b></p> <p>umehara@toyo.jp</p>
	<p>YAMAMOTO,</p> <p>Hirobumi</p> <p>Professor</p> <p>(male)</p>	<p>Pharmacognosy. Natural product chemistry and biochemistry of plant secondary metabolites.</p> <p><b>【Contact(e-mail)】</b></p> <p>yamamoto-h@toyo.jp</p>
	<p>KOSHIBA-TAKEUCHI,</p> <p>Kazuko</p> <p>Professor</p> <p>(female)</p>	<p>Heart development and evolution</p>
	<p>SHIIZAKI, Kazuhiro</p> <p>Associate professor</p> <p>(male)</p>	<p>(1) Environmental toxicology: Evaluation of the genotoxicity of environmental chemicals.</p> <p>(2) Physiological role of nuclear receptor for exogenous substances; aryl hydrocarbon receptor (AhR) on immune tolerance.</p>
	<p>YOSHINAGA, Jun</p> <p>Professor</p> <p>(male)</p>	<p>Environmental Health Risk Assessment, Human Ecology</p>
<p><b>11. Features of University</b></p>	<p>Toyo University is one of the largest private universities in Japan. It was founded in 1887 as "Tetsugakukan (School of Philosophy)" by the philosopher Dr. Enryo Inoue. It was reorganized in 1906 and has since been known as Toyo University. In 2017, the University will celebrate its 130<sup>th</sup> anniversary. Through this long history of academic contribution, the university has grown and currently, there are over 31,000 students in eleven undergraduate programs and ten graduate school programs.</p> <p>Toyo University was selected as one of the "TOP GLOBAL UNIVERSITY PROJECT" by the Japanese</p>	

	<p>government in 2014. Internationalization is one of the focuses of Toyo University, and currently there are 354 international students from 14 countries.</p>
<p><b>12 . Features of Graduate School</b></p>	<p>The Graduate School for Life Sciences aims to train students to solve various problems facing the humanity in the 21st century. It is a pressing issue to create a sustainable society with the least amount of stress to the environment. Life Sciences are expected to play a central role in improving and sustaining desirable environments and providing medical cares to the aging population. Two pillars of our school are Life Sciences Course and Applied Biosciences Course; through interactions among these disciplines, we are constantly engaged in the most advanced research topics.</p> <p>Specifically, we are internationally competitive in areas related to agricultural produces and microbiology in extreme environments.</p>
<p><b>13. Features and Curriculum of Program</b></p>	<p>Developing countries today are facing various difficulties, including rapid population growth, regional conflicts, deteriorating standard of living, and environmental problems. Insufficient social infrastructure, particularly in education and medical conditions and technological level, impedes socioeconomic development in developing countries.</p> <p>Therefore, it is of the utmost urgency that we nurture young researchers and planners who are experts in their specialized areas and have willingness to contribute to international cooperation. Through its innovative educational program, the Graduate School of Life Science aims to provide educational opportunities for students to learn about the interdisciplinary and practical subjects necessary for international development and cooperation, including environmental science, engineering, agricultural science, and medical science. The graduate school as a gathering of international characters offers a special place where the students with different expertise from various countries with different cultural, social, educational, political, and economical backgrounds are able to foster closer ties with each other and share the common agenda and goals in international development cooperation.</p>
<p><b>14. Academic Schedule</b></p>	<p>Early October: Starting as a Research Student  Mid February: Entrance Examination (Written and oral examinations)  Spring Semester (Reference)  Early April: Beginning of Academic Year  Early April: Guidance, Course Registration  Early April: Entrance Ceremony  Early April – Late July: Classes  Continuously throughout the semester: Life Science Experiments, Life Science Reading Seminar  Early June: Annual Founder’s Day Celebration  Early August – Late September: Summer Vacation  Fall Semester (Reference)  Late September: Guidance, Course Registration  Late September – Late January: Classes  Continuously throughout the semester: Life Science Experiments, Life Science Reading Seminar  The first weekend of November: University Campus Festival  Late December -Early January: Winter Vacation  Early January*: Submission of Master’s Thesis  Mid February*: Thesis Defense (Oral Presentation)  Mid March*: Announcement of Completion Results  Mid March: Progress Report for First Year Students (Poster Presentation)  Early February – Late March: Spring Vacation  Late March*: Graduation Ceremony  Late March: End of Academic Year  Note: Asterisk* designates events for the second year of the 2-year Master’s program.</p>

<b>15. Supporting service to International Students</b>	
<b>International Students Support Center for Consulting or counseling about daily life, campus life, cross-cultural adjustment etc.</b>	<p>Consultation Service</p> <p>If you have any concerns or worries, consult with a staff member at the Student Consultation Office on your campus.</p> <p>Professional counselors are there to help you.</p> <p>For further information, please visit the website at <a href="http://www.toyo.ac.jp/site/english-ss/consultation.html">http://www.toyo.ac.jp/site/english-ss/consultation.html</a></p> <p>Infirmary</p> <p>There is an infirmary on each campus where students can be treated for sudden illnesses or injuries.</p> <p>For further information, please visit our website at <a href="http://www.toyo.ac.jp/site/english-ss/infirmery.html">http://www.toyo.ac.jp/site/english-ss/infirmery.html</a></p>
<b>Provision of Student Dormitory</b>	
<b>Japanese Language Education Program for International Students</b>	
<b>Cultural Activities</b>	
<b>Any special attention to Religious Practice</b>	
<b>facilities (Library etc)</b>	<p>Library</p> <p>Currently, the university has libraries at Hakusan (Main), Asaka, Kawagoe, and Itakura campuses with more than 1,260,000 volumes and periodicals.</p> <p>For further information, please visit our website at <a href="http://www.toyo.ac.jp/site/english-campuslife/libraries.html">http://www.toyo.ac.jp/site/english-campuslife/libraries.html</a></p>
<b>Please state other particular supporting service you are endeavoring, if any.</b>	Please state any other financial aid you are applying to.
<b>16. Message to Prospective International Students</b>	
<b>Message from University</b>	Please visit our website for details.
<b>Voice of International Students</b>	