Global Scientists and Engineers Course−Advanced Designated Courses and Completion Requirements

Entry requirements:

1) A graduate of Tokyo Tech who successfully completed the previous GSEC (before March2017) or current GSEC−Intermediate

2) A graduate of another university who has acquired basic global competencies and achieved the minimum test score or fulfilled the requirements of one of the following:

   TOEFL iBT: 80 points, **TOEFL ITP**: 550 points, **TOEIC**: 750 points, **IELTS**: 6.0 points, **EIKEN**: Grade Pre-1

The Application Form must be submitted along with a photocopy of the Official Score Report of one of the above-mentioned tests and one of the following:
- documentation (certificates, etc.) proving that the applicant has the same level of global competencies as those who have completed GSEC−Intermediate
- an essay describing how the applicant possesses the global competencies necessary to enroll in GSEC−Advanced

The screening results will be notified via email after applications and necessary documents have been reviewed.

GSEC−Advanced aims to provide education, including study abroad programs, that enables students to develop the following:

(1) International liberal arts
   The comprehensive perspective required of a global scientist/engineer as well as broad knowledge that enriches communication on the global stage by deepening understanding of subjects such as ethics, history, culture, and literature

(2) Global leadership
   Skills such as developingobjectives, increasing team members motivation, and managing projects based on concrete plans

(3) Skills to bring new ideas and values
   Developing new and international perspectives free from traditional convention, and acquiring creative skills and values that will bring up new ideas and proposals for individuals and organizations

(4) Basic skills to conduct international joint research
   PDCA (plan-do-check-act) in order to bring new proposals for enhancement of society by working with experts from diverse fields while exercising one's own expertise

Students must attain 4 credits from the courses on the completion requirements list, and study abroad experience for at least 8 consecutive weeks (minimum 40 study days).

	Course equivalent to study abroad experience	Course category	Course number	Course title	Credits	Offered quarter	International liberal arts	Global leadership	Skills to bring new ideas and values	Basic skills to conduct international joint research	Required credits	Comments
Global Leadership and International Liberal Arts		Global Awareness and Other Breadth Courses	LAW.X421	Global Leadership Training / Breadth courses	0-0-1	4Q		○			A minimum of 1 credit	If more than 2 credits are attained, the extra credits can be counted as part of the 3 credits required under Liberal Arts, Foreign Languages, and Career Development.
			LAW.X423	Technology and Product in Context	0-1-0	4Q	○		○			
Liberal Arts, Foreign Languages, and Career Development		Breadth Courses (Global Awareness and Other Breadth Courses)	LAW.X403	Introduction to EdTech: Video-Making	0-1-0	2Q			○		A minimum of 3 credits	Credits accredited as part of the requirement for "Study Abroad Experience" cannot be double counted in this category.
			LAW.X407	Fieldwork Skills Fall	0-1-0	3Q	○		○			
			LAW.X406	Fieldwork Skills Spring	0-1-0	1Q	○		○			
			LAW.X417	Sustainable Engineering Technology	1-1-0	4Q		○	○	○		
			LAW.X414	Technical Management for Sustainable Engineering	2-0-0	3Q	○		○			
			LAW.X408	Think Aloud	0-2-0	3Q~4Q	○					
		Humanities and Social Sciences Courses	LAH.C402	Peer Review Practicum 1-4　[Prerequisites]completed "Leadership Dojo"	0-1-0	3Q・4Q		○				
			LAH.C401	Leadership Dojo 1-12	1-0-0	1Q・2Q		○				
			LAH.A501	Area Studies: Europe	1-0-0	1Q	○					
			LAH.A503	Area Studies: Latin America	1-0-0	2Q	○					
			LAH.A504	Area Studies: Middle East and Africa	1-0-0	3Q	○					
			LAH.A506	Area Studies: North America and Oceania	1-0-0	4Q	○					
			LAH.A505	Area Studies: South and Southeast Asia	1-0-0	3Q	○					
			LAH.A502	Area Studies: East Asia	1-0-0	1Q	○					
			LAH.A511	Interpretation of Japan	1-0-0	3Q	○					
			LAH.C501	Advanced Leadership Workshop 1-2 [Prerequisites]completed "Leadership Dojo" and "Peer Review Practicum"	1-0-0	1Q		○				
		Career Development Courses	LAC.M531	Pre ALP Practice A-D　(former : MLP Practice)	1-0-0	1Q, 2Q, 3Q, 4Q				○		
			LAC.M521	Ethics of Scientists (Master Course) C-D	1-0-0	3Q・4Q	○	○				
			LAC.M525	Ethics of Engineers (Master Course) C-D	1-0-0	3Q・4Q	○	○				
			LAC.M537	Social Contributions through Research C1-2	1-0-0	3Q		○	○			
			LAC.M443	Master's Developing Career Adaptability for Global Competitiveness	1-0-0	3Q			○	○		
			LAC.M403	Strategies for Balancing Career, Personality and Lifestyle(Master Course)　(former : Master's Career Design IIIE)	1-0-0	2Q・4Q				○		
			LAC.M511	Smart Business Career development　(Master's Developing Career Adaptability for Global Competitiveness)	1-0-0	3Q			○	○		
			LAC.M448	Master's Critical Thinking	1-0-0	3Q				○		
			LAC.M562	Master's Scientific Communication	1-0-0	2Q	○	○				
			LAC.M451	Master's Technical Discussion A-B	0-1-0	1Q・2Q				○		
			LAC.M457	Master's Technical Writing C-D	0-1-0	3Q・4Q				○		
	○	English Language Courses	LAE.E451	TOEFL Seminar 13	0-1-0	1Q	○					
	○		LAE.E452	TOEFL Seminar 14	0-1-0	2Q	○					
	○		LAE.E453	TOEFL Seminar 15	0-1-0	3Q	○					
	○		LAE.E454	TOEFL Seminar 16	0-1-0	4Q	○					
	○		LAE.E441	Academic Presentation in English 13	0-1-0	1Q	○					
	○		LAE.E442	Academic Presentation in English 14	0-1-0	2Q	○					
	○		LAE.E443	Academic Presentation in English 15	0-1-0	3Q	○					
	○		LAE.E444	Academic Presentation in English 16	0-1-0	4Q	○					
	○		LAE.E461	Academic Writing in English 13	0-1-0	1Q	○					
	○		LAE.E462	Academic Writing in English 14	0-1-0	2Q	○					
	○		LAE.E463	Academic Writing in English 15	0-1-0	3Q	○					
	○		LAE.E464	Academic Writing in English 16	0-1-0	4Q	○					
	○		LAE.E431	Oral Expression in English 13	0-1-0	1Q	○					
	○		LAE.E432	Oral Expression in English 14	0-1-0	2Q	○					
	○		LAE.E433	Oral Expression in English 15	0-1-0	3Q	○					
	○		LAE.E434	Oral Expression in English 16	0-1-0	4Q	○					
	○		LAE.E471	English Speech Seminar 13	0-1-0	1Q	○					
	○		LAE.E472	English Speech Seminar 14	0-1-0	2Q	○					
			LAE.E481	English Language and Cultures 13	0-1-0	1Q	○					
			LAE.E482	English Language and Cultures 14	0-1-0	2Q	○					
			LAE.E483	English Language and Cultures 15	0-1-0	3Q	○					
			LAE.E484	English Language and Cultures 16	0-1-0	4Q	○					
		Second Foreign Language Courses	LAL.G431	German Seminar: Culture and Society 1	0-1-0	1Q	○					
			LAL.G432	German Seminar: Culture and Society 2	0-1-0	2Q	○					
			LAL.G433	German Seminar: Culture and Society 3	0-1-0	3Q	○					
			LAL.G434	German Seminar: Culture and Society 4	0-1-0	4Q	○					
			LAL.F431	French Seminar: Culture and Society 1	0-1-0	1Q	○					
			LAL.F432	French Seminar: Culture and Society 2	0-1-0	2Q	○					
			LAL.F433	French Seminar: Culture and Society 3	0-1-0	3Q	○					
			LAL.F434	French Seminar: Culture and Society 4	0-1-0	4Q	○					
			LAL.R431	Russian Seminar: Culture and Society 1	0-1-0	1Q	○					
			LAL.R432	Russian Seminar: Culture and Society 2	0-1-0	2Q	○					
			LAL.R433	Russian Seminar: Culture and Society 3	0-1-0	3Q	○					
			LAL.R434	Russian Seminar: Culture and Society 4	0-1-0	4Q	○					
			LAL.C431	Chinese Seminar: Culture and Society 1	0-1-0	1Q	○					
			LAL.C432	Chinese Seminar: Culture and Society 2	0-1-0	2Q	○					
			LAL.C433	Chinese Seminar: Culture and Society 3	0-1-0	3Q	○					
			LAL.C434	Chinese Seminar: Culture and Society 4	0-1-0	4Q	○					
Study Abroad Experience		Breadth Courses	LAW.X513・514	Advanced Overseas Training for Global Scientists and Engineers 4A, 4B	0-0-4	1Q~4Q			○	○		
			LAW.X511・512	Advanced Overseas Training for Global Scientists and Engineers 3A, 3B	0-0-3	1Q~4Q			○	○		
			LAW.X509・510	Advanced Overseas Training for Global Scientists and Engineers 2A, 2B	0-0-2	1Q~4Q			○	○		
			LAW.X507・508	Advanced Overseas Training for Global Scientists and Engineers 1A, 1B	0-0-1	1Q~4Q			○	○		

If the duration of study abroad is less than 8 weeks, students must fulfill the following conditions regarding credits and experience.

	Period of study abroad	Required credits and necessary experience	International liberal arts	Global leadership	Skills to bring new ideas and values	Basic skills to conduct international joint	Minimum period of study abroad (study days)	Comments
Study Abroad Experience	Study abroad for at least 8 consecutive weeks (minimum 40 study days)				○	○		Students must be recognized to possess international experience necessary to acquire GSEC−Advanced skills. Their study abroad experiences must satisfy requirements for course completion. To receive this recognition, student must submit a request with academic transcripts (including the number of credits) obtained from the study abroad program2 to the Support Office for the Promotion of Global Human Resource Development within one month upon return. Presentations at international conferences must be recognized as having satisfied completion requirements. To receive this recognition, student should submit a copy of the following documents: (i) A cover of the conference program containing information such as conference title, objectives, venue and period (ii) Page(s) of the conference program showing the applicant's presenter's name, presentation title, and abstract (iii) The applicant's abstract or the first page of the paper submitted to the conference *Study abroad for at least 10 consecutive days (minimum 8 study days) plus pre- and post-study
	Study abroad for at least 6 consecutive weeks (minimum 30 study days) and one of the conditions in the right column must be satisfied	1. Acquire one credit from among the courses designated as equivalent to study abroad experience (marked with circles in English Language Courses)			○	○	At least 4 consecutive weeks of study abroad (minimum 20 study days)	
		2. Study abroad for at least 2 consecutive weeks* (separate from the 6-week trip)			○	○		
		3. Make presentation at an international conference			○	○		
	Study abroad for at least 4 consecutive weeks (minimum 20 study days) and one of the conditions in the right column must be satisfied	1. Acquire two credits from among the courses designated as equivalent to study abroad experience (marked with circles in English Language Courses)			○	○		
		2. Acquire one credit from among the courses designated as equivalent to study abroad experience, and study abroad for at least 2 consecutive weeks (separate from the 4-week trip) or present at an international conference*			○	○		
		3. Study abroad for at least 4 consecutive weeks (separate from the 4-week trip)			○	○		

GSEC acknowledges the acquisition of international experience as one of Tokyo Tech's key goals in education. After fulfilling the completion of GSEC−Intermediate, students will have gained the following through international experience:
- a broader perspective
- an appreciation of diversity and collaboration with people from other countries
- improved communication skills in foreign languages

Notes:
- The number of courses designated for GSEC will increase.
- Students should register for courses in such a way to acquire (a) international liberal arts, (b) international leadership, (c) skills to bring new ideas and values, and (d) basic skills for conducting international joint research.
- Students will be assessed on the competencies recorded in their learning portfolios and will undergo interviews in order to fulfill the completion requirements. Those who have been admitted will receive the Certificate of Completion upon finishing a master's program.
- Mentors and program coordinators give instructions as necessary to students enrolling in GSEC.