Global Scientists and Engineers Course – Advanced **Entry requirements and Completion Requirements/Designated Courses**

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 the following:
- documentation (certificates, etc.) proving that the applicant has the same level of global competencies as those who have completed GSEC Intermediate
- $\hbox{- an essay describing how the applicant possesses the global competencies necessary to enroll in $\sf 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

- Broadly understand the con
 (2) Global leadership ctions between society and one's area of specialization, know the relevant ethics, history, and culture, and utilize this understanding in cross-cultural communication
- Clearly articulate concrete goals to others of a different culture, propose various ideas without fearing risk, recruit supporters, and achieve objectives.

 (3) Skills to bring new ideas and values
- Begin new activities based on novel ideas without being constrained by conventional thinking
- (4) Basic skills to conduct international joint research
- Conduct research and propose ideas in collaboration with experts from Japan and abroad who work outside of one's area of specialization.

Students must attain 4 credits from the courses on the completion requirements list (A1 and A2), and study abroad experience (A3).

- 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

Course

- im	proved communication		gn languages								
		equivalent to study abroad experience	Course category	Course number	Course title	Credits	Offered quarter	Internatio nal liberal arts	Global Skills to bring new leadership ideas and values Basic skills to conduct internationa I joint research	Required credits	Comments
		experience			Global Leadership Training / Breadth courses *	0-0-1	_		0		If more than 2 credits are attained, the extra credits can be counted as part of the 3 credits required under
A1	Global Leadership and International		Global Awareness and		Technology and Product in Context Global Leadership Practice	0-1-0 0-1-0		0	0	A minimum of 1 credit	Liberal Arts, Foreign Languages, and Career Development.
	Liberal Arts		Other Breadth Courses	LAW.X425 LAW.X427	Our Sustainable Energy Future: Role of Business and Technology (Previously:Our Climate Future)			0	0 0	A minimum of 1 creat	*Credits acquired from a course equivalent to "Study Abroad Experience" cannot be double counted in this
				LAW.X429	Multicultural Collaboration and Leadership	0-1-0	4Q		0		category.
			Dura the Course	LAW.X406	Fieldwork Skills Spring Fieldwork Skills Fall	0-1-0 0-1-0		0	0		
				LAW.X408	Think Aloud	1-1-0			0 0 0		
			Breadth Courses (Global Awareness and	LAW.X417		2-0-0	3Q	0	0		
			Other Breadth Courses)	LAW.X414 LAW.X428	Technical Management for Sustainable Engineering Resource Efficiency and Circular Economy	0-2-0 0-2-0		0	0 0		
			-		Advanced Course of Traditional Technology and Intercultural Co-learning	0.5-05		0	0 0		
					Advanced Domestic Training for Global Scientists and Engineers 1C • D		1-2Q · 3-40	Ş	0 0		
		•		LAW.X403 LAH.C402	Introduction to EdTech: Video-Making (Closed from AY2020) Peer Review Practicum 1-4 [Prerequisites]completed "Leadership Dojo"	0-1-0 0-1-0			0		
			-	LAH.C401		1-0-0			0		
					Area Studies: Europe Area Studies: Latin America	1-0-0		0			
			Humanities and Social		Area Studies: Middle East and Africa	1-0-0		0			
			Sciences Courses	LAH.A506	Area Studies: North America and Oceania	1-0-0	4Q	0			
			-		Area Studies: South and Southeast Asia Area Studies: East Asia	1-0-0		0			
				LAH.A511		1-0-0		0			
1				LAH.C501	Advanced Leadership Workshop 1-2 [Prerequisites]completed "Leadership Dojo" and "Peer Review Practicum"	1-0-0	1Q		0		
1					Pre ALP Practice A-D (former : MLP Practice) Ethics of Scientists (Master Course) C-D	1-0-0		0	0		
					Ethics of Engineers (Master Course) C-D Ethics of Engineers (Master Course) C-D	1-0-0		0	0		
				LAC.M537	Social Contributions through Research C1-2	1-0-0			0 0		
Δ2	Liberal Arts,		-	LAC.M443 LAC.M403	Master's Developing Career Adaptability for Global Competitiveness Strategies for Balancing Career, Personality and Lifestyle(Master Course) (former: Master's Career Design IIIE)	1-0-0		1	0 0		
1^2	Foreign Languages,		Career Development	LAC.M406	Master's Global Career Development Literacy	1-0-0	2Q	0			
	and Career				Smart Business Career development (Master's Developing Career Adaptability for Global Competitiveness)				0 0	1	
	Development			LAC.M448 LAC.M533	Master's Critical Thinking Outline of Technology Management A	1-0-0		0	0 0		
			Courses	LAC.M562	Master's Scientific Communication	1-0-0		Ö	0		
				LAC.M451	Master's Technical Discussion A-B	0-1-0			0		
				LAC.M457 LAC.A645	Master's Technical Writing C-D Outline of Technology Management A	0-1-0 1-0-0		0	0		
				LAC.C643	Developing Career Adaptability for Global Competitiveness	1-0-0			0 0		
				LAC.A635 LAC.C648	The Tractice II (STEISCOS Training	0-0-1			0 0		
				LAC.C651	Critical Thinking Technical Discussion	1-0-0 0-1-0		0	0		
				LAC.C657	Technical Writing	0-1-0	3Q · 4Q		0		
					Ethics of Scientists and Engineers D Study Abroad Program in English IIA 1 · 2	1-0-0 0-2-0	-	0	0		
			-		Study Abroad Program in English IIB 1 · 2	0-2-0		0			
		•			TOEFL Seminar 13	0-1-0		0			Credits acquired from a course equivalent to "Study Abroad Experience" cannot be double counted in this
		•	-	LAE.E452 LAE.E453		0-1-0 0-1-0		0		A minimum of 3 credits	category.
		•			TOEFL Seminar 16	0-1-0		0			If courses listed on the left are taken as "Study Abroad Experience," acquired credits will not be accepted toward
		•		LAE.E441		0-1-0		0			the required 3 credits for "Liberal Arts, Foreign Languages, and Career Development."
		-	-		Academic Presentation in English 14 Academic Presentation in English 15	0-1-0 0-1-0		0			
		•		LAE.E444	Academic Presentation in English 16	0-1-0	4Q	0			
		•			Academic Writing in English 13 Academic Writing in English 14	0-1-0 0-1-0		0			
		·	English Language Courses	LΔE E463	Academic Writing in English 15	0-1-0		0			
		•	Eligiisii Laliguage Courses	LAE.E464	Academic Writing in English 16	0-1-0		0			
		-:-		LAE.E431 LAE.E432	Oral Expression in English 13 Oral Expression in English 14	0-1-0 0-1-0		0			
		•		LAE.E433	Oral Expression in English 15	0-1-0		0			
1		•		LAE.E434		0-1-0		0			
1		\vdash :			English Speech Seminar 13 English Speech Seminar 14	0-1-0 0-1-0	,	0			
		•		LAE.E435	Oral Expression in English GIII	0-2-0	2Q	0			
1		•			Oral Expression in English GIV English Language and Cultures 13	0-2-0 0-1-0		0			
1				LAE.E482	English Language and Cultures 14	0-1-0		0			
1				LAE.E483	English Language and Cultures 15	0-1-0		0			
					English Language and Cultures 16 German Seminar: Culture and Society 1	0-1-0 0-1-0		0			
1				LAL.G432	German Seminar: Culture and Society 2	0-1-0		0			
1					German Seminar: Culture and Society 3	0-1-0	3Q	0			
					German Seminar: Culture and Society 4 French Seminar: Culture and Society 1	0-1-0 0-1-0		0			
				LAL.F432	French Seminar: Culture and Society 2	0-1-0	2Q	0			
			-		French Seminar: Culture and Society 3	0-1-0		0			
1			-	LAL.R431	French Seminar: Culture and Society 4 Russian Seminar: Culture and Society 1	0-1-0 0-1-0		0			
1				LAL.R432	Russian Seminar: Culture and Society 2	0-1-0	2Q	0			
			Second Foreign Language Courses	LAL.R433 LAL.R434	Russian Seminar: Culture and Society 3 Russian Seminar: Culture and Society 4	0-1-0 0-1-0		0			
			Courses		Russian Seminar: Culture and Society 4 Chinese Seminar: Culture and Society 1	0-1-0		0			
				LAL.C432	Chinese Seminar: Culture and Society 2	0-1-0	2Q	0			
1			-	LAL.C433		0-1-0		0			
1				LAL.C434 LAL.S431		0-2-0 0-1-0		0			
1				LAL.S432	Spanish Seminar: Culture and Society 2	0-1-0	2Q	0			
			-	LAL.S433		0-1-0		0			
					Spanish Seminar: Culture and Society 4 Study Abroad Program in Second Foreign Languages IIA 1 · 2	0-1-0 0-2-0		0			
				LAL.Z402	Study Abroad Program in Second Foreign Languages IIB 1 · 2	0-2-0	1Q~4Q	0			
1					Global Presentation A, B, C, D Global Communication A, B, C, G, F	1-0-0 1-0-0		0	0		
1			Tokyo Tech Academy for		Global Writing A, B, C, D		2Q • 4Q 1Q • 2Q • 3Q • 40				
			Leadership	TAL.C.601	Strategic Debate A, B	1-0-0	1Q · 3Q	0			Closed since AY2020
				TAL.C.602	Creative Discussion A, B	1-0-0	2Q · 3Q	0	0 0 0		Closed since AY2020

		Period of study abroad	Necessary experience and required credits	International liberal arts	Global	bring new ideas and values	to conductinter national	Minimum period of study abroad (study days)	Comments
АЗ		Study abroad for at least 8 consecutive weeks (minimum 40 study days) Study abroad for at reast 6 consecutive weeks (minimum 30 study days) and one of the conditions in the cidat column must be				0	0		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 and additional course credits from one of the following: (a) Global Awareness and Other Breadth Courses3 or graduate major courses (b) foreign language courses4 (c) an overseas university from another study abroad program) obtained from the study abroad program to the Support Office for the Promotion of Global Human Resource Development within one month upon return. When appropriate credit(s) from Graduate Major Courses, and Foreign Language Courses is not gained, "Advanced Overseas Training for Global Scientists and Engineers 1C,D to 4C,D((LAW.X507-514) " can be registered with "Study Abroad Experience"." 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 *No period required *1 A study abroad period of less than four consecutive weeks, including 20 study days, may fulfill requirements for study abroad experience, on the condition that it has produced satisfactory results. Students to whom this applies should consult the Support Office for the Promotion of Global Human Resource Development. *2 *2 **Study abroad for at least 10 consecutive days (minimum 8 study days) plus pre- and post-study
			Acquire one credit from among the courses designated as equivalent to study abroad experience (marked with circles in English Language Courses)			0	0	At least 4 consecutive weeks of study abroad (minimum 20 study days)	
	Study Abroad Experience	Study adroad for at least 4	Study abroad for at least 2 consecutive weeks*2 (separate from the 6-week trip)			0	0		
	State, Fill Sad Experience		3. Make presention at an international conference			0	0		
		consecutive weeks*1 (minimum 20 study days) and one of the conditions in the right column must be	Acquire two credits from among the courses designated as equivalent to study abroad experience (marked with circles in English Language Courses)			0	0		
			Acquire one credit from among the courses designated as equivalent to study abroad experience, and study abroad for at least 2 consecutive weeks*2 (separate from the 4-week trip) or present at an international conference*			0	0		
			Study abroad for at least 4 consecutive weeks (separate from the 4-week trip)			0	0		

- The courses designated for GSEC will be added and updated
- 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 pinit 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.