

Entrepreneurship Courses for Master's Students (Compulsory)

Center for Entrepreneurship Education (CEE)



What is “Entrepreneurship”

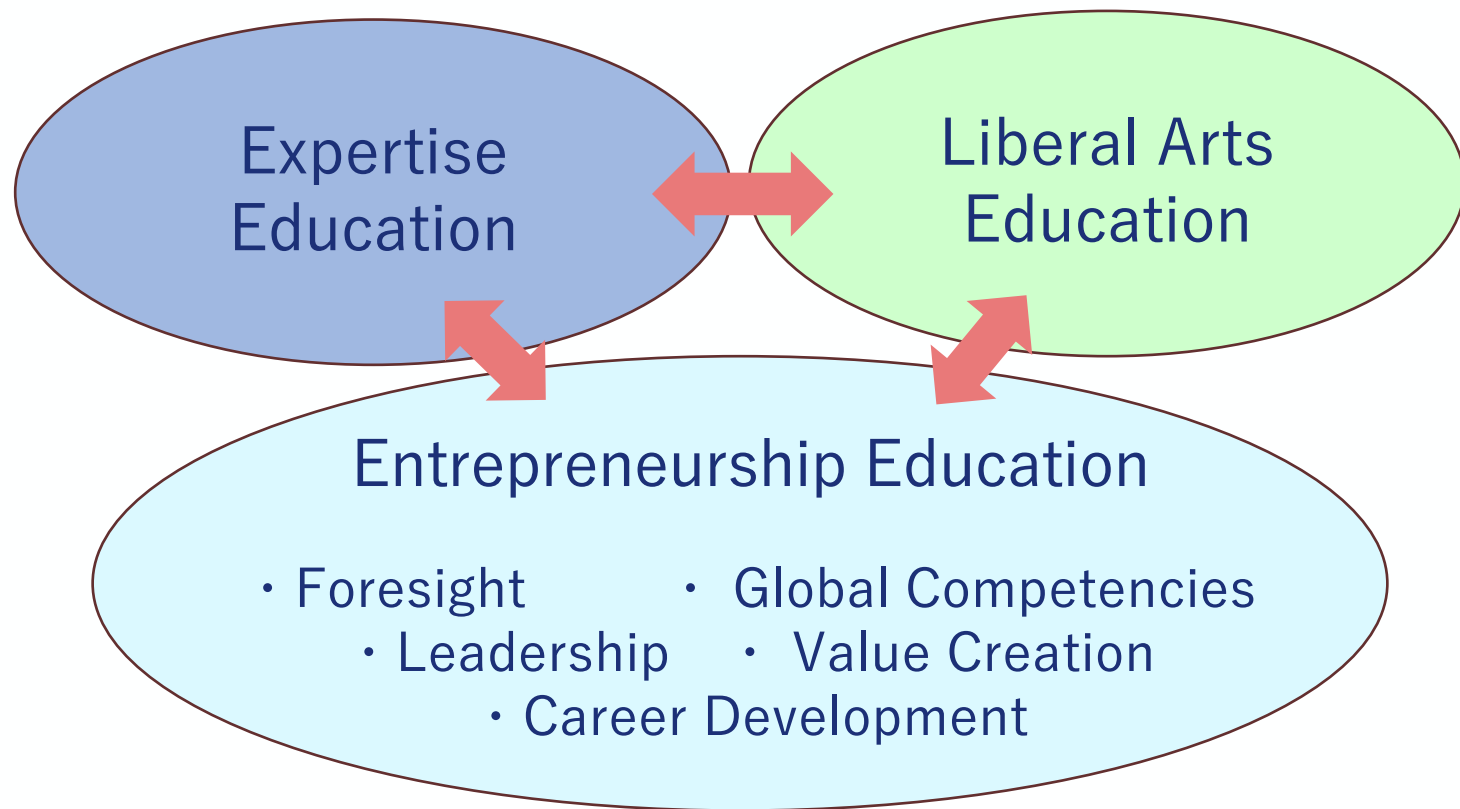
To survive in an era of VUCA (Volatility, Uncertainty, Complexity and Ambiguity), it is necessary to be equipped with entrepreneurship mindset and skills.

Entrepreneurship \neq Start-up

Entrepreneurship >> Start-up

In Science Tokyo, entrepreneurship is defined as "a system of behaviour to create new value and implement it in the real world for the well-being of society"

so that you will be able to act autonomously



Science Tokyo aims to develop human resources working for diverse organisations such as not only start-ups but also companies, universities, government agencies, international organisations, NGOs/NPOs, etc. who can solve global issues raised by the SDGs, etc. by creating new value, and can create future societies by utilising their comprehensive knowledge.

Curriculum Models for Graduate Students:

- [illegible]

4

Competencies, Knowledge and Skills to be Acquired

(1) Foresight

Have a clear vision of a better future for society based on scientific and technological developments

(2) Global Competencies

By understanding the essence of global issues and their relationship with oneself, and through collecting, analysing and elucidating, one should be able to make proposal for solution. Further, one shall be able to equip with collaborative skills with one(s) with different background (culture, custom, and language, etc.) based on respect and mutual understanding.

(3) Leadership ★

Demonstrate leadership in building consensus among different stakeholders by recognizing hidden assumptions, respecting diversity and expressing opinions based on their own values.

(4) Value Creation ★

★ Important components

(5) Career Development



Competencies, Knowledge and Skills to be Acquired (Continued)

(4) Value Creation ★

Based on insights into essential issues in their own area of expertise, they create new value by repeatedly proposing solutions, implementing them and verifying them from multiple perspectives.

They also increase the probability of the process, bring it to fruition in the real world and achieve it with a sense of purpose.

(5) Career Development

Find role models as references for their future and develop their future careers. Basic knowledge required for success in society, including industry and company analysis, organizational financial accounting, laws, standards and other regulations, entrepreneurship, ethics and SGDs.

Social skills such as self-understanding and self-presentation, communication, critical thinking, writing, problem-solving and leadership will be obtained..

- CEE provides entrepreneurship courses on elements (1) to (5) at the 400 - 500 levels. It is recommended that students take these courses across as many components as possible, especially at least one credit from 'Leadership' and 'Value Creation'.

- Also available are expertise courses provided by each school that can be regarded as entrepreneurship courses.

Examples of Courses for Master's Program 1

Table M- 2 Entrepreneurship courses provided by CEE (Excerpt.)

Elements	Level	Code	Course Title	Credit	Quarter	
Global	400	ENT.G405	異文化グループワーク海外研修アドバンスト 2 (Advanced Multicultural Groupwork Study Abroad 2)	0-0-2	1～2Q/3～4Q	英日併用 GA1M
	400	ENT.G453	Technology and Product in Context (物語のあるものづくり)	0-1-0	4Q	英語 GA1M
	400	ENT.G454	Our Sustainable Energy Future: Role of Business and Technology (私たちの持続可能なエネルギーの未来：ビジネスと技術の役割)	0.5- 0.5-0	3Q	英語 GA1M
Leader ship	400	ENT.L456	Effective Teamwork in Global Companies (グローバル企業の効果的なチームワーク)	0-1-0	4Q	英語 GA1M
	400	ENT.L457	Global Leadership Practice (グローバルリーダーシップ実践)	0-2-0	2Q	英語 GA1M
Value Creation	400	ENT.V401	Master's Introduction to Entrepreneurship 1 (修士アントレプレナーシップ入門 1)	1-0-0	3Q	英語 GA0M
	400	ENT.V402	Master's Introduction to Entrepreneurship 2 (修士アントレプレナーシップ入門 2)	1-0-0	4Q	英語 GA1M
Career Development	GA: Knowledge and skills to be acquired				Q/3Q	GA0M
	400	ENT.C406	Master's Global Career Development Literacy (修士グローバルキャリア開発リテラシー)	1-0-0	1Q/3Q	英語 GA0M

Examples of Courses for Master's Program 2

Table M-3 Entrepreneurship-deemed courses provided institute-wide (Excerpt.)

Elements	Level	Code	Course Title	Credit	Quarter	Category	
Global	400	LAW.X416	Modern Japan (モダンジャパン)	1-1-0	2Q	広域教 養科目	英語 GA0M GA1M
Leader ship	400	TAL.W401	Introduction to Leadership (リーダーシップ入門)	0-1-0	1Q/2Q /3Q/ 4Q	ToTAL	英語 GA0M
	500	TAL.W502	Fundamental Group Work for Leadership I (リーダーシップ・グループワーク基礎 I)	0-2-0	1～ 2Q/3 ～4Q	ToTAL	英語 GA0M GA1M
	500	TAL.W503	Fundamental Group Work for Leadership II (リーダーシップ・グループワーク基礎 II)	0-2-0	1～ 2Q/3 ～4Q	ToTAL	英語 GA0M GA1M
Value Creation	400	LAW.X418	Study on Japanese Companies and Industries			広域教	英語 GA0M GA1M
	400	LAW.X419	Study on Japanese Companies and Industries II (日本企業・産業研究 II)	0-1-0	1Q	広域教 養科目	英語 GA0M GA1M

GA0M
GA1M



GA: Knowledge and skills to be acquired

Examples of Courses for Master's Program 3

Table M-4 Entrepreneurship-related courses provided institute-wide (Excerpt.)

No GA

Element	Level	Code	Course Title	Credit	Quarter	Category	
Global	400	ENT.G403	異文化グループワーク海外研修 アドバンスト 1 (Advanced Multicultural Groupwork Study Abroad1)	0-0-1	1~2Q /3~4Q		GA なし
	400	ENT.G455	Science Communication for Global Talents - Overseas Program (グローバル人材のためのサイエンス コミュニケーションー 海外研修プログラム)	1-1-0	2Q		英語 GA なし
	400	LAW.X415	HighTech Japan (ハイテクジャパン)	1-0-0	2Q	広域教養 科目	英語 GA なし
	400	LAW.X442	CAMPUS Asia Plus Spring Semester Program Research Exchange Project (キャンパスアジアプラス前学期研究交流 プロジェクト)	0-0-2	1~2Q	広域教養 科目	英語 GA なし
	400		研究交流プロジェクト)				

No GA



For those who would like to obtain more than 2 compulsory credits
or to take 'Global Education Option (GEO)' Curriculum Model.

- Each school provides expertise courses that can be regarded as entrepreneurship courses.
- **GA** has been recognized

Please check the 'Study Guide' for details.

Table ○ Courses that can be regarded as entrepreneurship courses
for ●● Master's Program
Entrepreneurship-deemed Courses offered by each School
(Including information about GA)

Note Credits for one course cannot be double-counted for both expertise course and entrepreneurship course.

Entrepreneurship Education Core (Master)

It is compulsory for the master to obtain at least 2 credits to fulfil the following two GAs (GA0M and GA1M) set out in Table M-1 in the 'Study Guide'.

Table M-1 Graduate Attributes

GA0M	You can clearly plan your own career and recognize the abilities necessary for realizing it while considering ethics and relevance to societal problems.
GA1M	You can acquire the knowledge, skills, and ethics necessary for realizing your planned career and contribute to societal problem-solving while collaborating with other experts

Note Credits for one course cannot be double-counted for both expertise course and entrepreneurship course.

Summary of Curriculum Models (Important)

Elements	Master	
	Core (Compulsory)	Global Education Option
Global Competencies	2 (GA0M and GA1M)	3 ↑ From courses specified by 'Option'
Leadership		
Value Creation		
Career Development		
Total Credits	2	2+3



Certificate for Option

- Only course registration is required for each model.
(application or no other procedure is necessary)

In addition to the compulsory GA-attached courses in the Entrepreneurship Education Core (Master's program), **this option also offers courses for studying abroad and improving foreign language communication skills.**

- This option can be undertaken in parallel with the Entrepreneurship Education Core.



- **A certificate of completion for the Global Education Option (Master's Program) will be issued** if, by the end of the Master's Program, **a minimum of five credits have been obtained** to meet the following conditions on next page, **in addition to the two credits that fulfil the GA required in the Education Core.**






Option Prerequisites:

- At least 1 credit from the courses of “Global Competencies” and “Leadership” in the entrepreneurship courses designated in the ‘Option’.
- At least 1 credit from the courses designated by the institute for the recognition of international experience. (Studying abroad for at least 1 month is recommended.)
- At least 1 credit from the communication courses or the entrepreneurship courses designated by the ‘Option’ in Tables M-2, M-3 and M-4.



Steps to Take Entrepreneurship Courses

Check point	Info Location	QR Code
① Completion requirements for your course	“List of Study Guides” ➔ “Guide to Graduate Education and International Graduate Program(Fall 2024)” ➔ "Guide to Graduate Majors (for IGP) "	
② Entrepreneurship courses	“List of Study Guides” ➔ “Guide to Graduate Education and International Graduate Program(Fall 2024)”	
③ Courses that are regarded as the Entrepreneurship courses	➔ " Liberal Arts and Basic Science Courses" ➔ “Entrepreneurship courses”	
④ Timetable for Entrepreneurship courses	“Current Students” ➔ “Academic Life” ➔“Graduate Timetable” ➔“Entrepreneurship Courses”	
⑤ Course Registration	“Science Tokyo Portal” ➔Web Services for Students and Faculty ➔Registration	

How to check credits and GA for entrepreneurship courses in the “Web Services for Students and Faculty”

【Web Services for Students and Faculty” for each student】

修了要件 <数学コース>

No. of credits obtained for Entrepreneurship Courses(a)

	修了要件	修得済単位	修得済単位 アントレプレナーシップ 対応
教養科目群			
文系教養科目 (400番台)	2	2	
文系教養科目 (500番台)	1	0	
アントレプレナーシップ科目	2	0	
教養科目群 (小計) <A>	5	2	0
専門科目群			
講義科目	8	4	
研究関連科目 (A)	8	4	
コース標準学修課程 専門科目 (L)		1	
コース標準学修課程 専門科目 (A)	8	8	
コース標準学修課程の専門科目群 (小計) 	24	17	
コース標準学修課程外の専門科目 <C>		1	0
合計 <A+B+C>	31	20	1

Make sure that $a + b \geq 2$

No. of credits obtained courses that can be regarded as entrepreneurship courses(b)

Note: Credits for one course cannot be double-counted for both expertise course and entrepreneurship course.

※「修得済単位」には学生自身が修得した単位数が計上されておりますが、コースでの読み替えを行う前の区分で掲載されています。

修得済GA

GA0M

修了には、入学年次から卒業までに記載されているすべてのGAの修得が必要です。

[修士課程学生に求められるGA]
2022年以降入学：GA0M, GA1M

GAs in entrepreneurship courses acquired so far: both 'GA0M' and 'GA1M' must be displayed here by the end of the master program. GAs acquired in entrepreneurship-deemed courses offered in each expertise course, etc., are also indicated here.

	修得済単位
特定教育課程専用教養科目	0
100～300番台	0
600番台	0

Information Sessions and Materials for New Students

There will be information sessions and materials for new students covering the elements of "Leadership", "Value Creation", "Global Competencies" and "Career Development".

■ Leadership and Value Creation: **Briefing Session**

Friday, April 4, 2025, 6:00 p.m. - 7:00 p.m.

(In Japanese and English, in person and online)

Details & registration: https://www.total.titech.ac.jp/en/lead_innov/



■ Global Competencies:

Global Education Option (GEO) New Student Orientation

Wednesday, April 16, 2025, 5:40 p.m.-

Venue:

<https://science-tokyo.box.com/s/rg0gappre6q687t43wxp1qqcexfw57bk>



■ Career Development: **Materials / Videos**

<https://www.cee.titech.ac.jp/info18.html>



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