Career Development Courses

Master's Students

Master's students are required to fulfil all of the Graduate Attributes (GA) shown in Table MA-1 and acquire at least two credits in career development courses by the time they complete their master's degree program. In addition to the career development courses offered by each graduate major, certain 400- and 500-level courses as shown in Table 1 are also appropriate for attaining GAs and credits. Whether a student has satisfied the GA and credit requirements will be judged at the completion of the program based on completion requirements set for each graduate major. Take appropriate courses according to the completion requirements of your master's degree program. If a course fulfills more than one GA, acquiring credit in that course will fulfill all GAs that it is linked to.

Table MA-1 Master's Degree Program Graduate Attributes

C0M	You will be able to delineate your career plan clearly and recognize the skills necessary to materialize that plan, taking into account its relation to society
C1M	You will be able to understand academic integrity, utilize your own expertise for the development of academia and technology, and work with others with different expertise to contribute to problem-solving

Table 1: Master's Degree Program courses (400 and 500 levels)

Course category	Course number	Course title		Credits	GA*	Comments
400 level	LAC.M401		Master's Career Design	1-0-0	C0M	Offered to students who have not taken "Master's Career Design", "Master's Career Plan", "Master's Career Design I", or "Master's Career Design II"
	LAC.M406	★	Global Career Development Literacy	1-0-0	C0M	Change of course name (former course name：Fundamental Strategy for Balancing Career, Personality and Lifestyle), effective from 2021 AY.

	LAC.M413		Master's Career Design Practice	0-1-0	C0M	
	LAC.M448	★	Critical Thinking	1-0-0	C1M	
500 level	LAC.M511		Smart Business Career Development	1-0-0	C1M	
	LAC.M527		Social and Business Rules and Ethics	1-0-0	C1M	Creation of new course, effective from 2021 AY.
	LAC.M537		Social Contributions through Research	1-0-0	C1M	
	LAC.M538		Master's Research Internship	0-0-1	C1M	
	LAC.M562	★	Scientific Communication	1-0-0	C1M	
	LAC.M573		Master's Recurrent Program Advanced Practice 1-1	0-0-1	C0M, C1M	Creation of new course, effective from 2021 AY. Offered in English as needed
	LAC.M574		Master's Recurrent Program Advanced Practice 1-2	0-0-1	C0M, C1M	Creation of new course, effective from 2021 AY. Offered in English as needed
	LAC.M575		Master's Recurrent Program Advanced Practice 2	0-0-2	C0M, C1M	Creation of new course, effective from 2021 AY. Offered in English as needed

Note：

• **★：offered in English in principle**

＊**GA: Graduate Attributes**

• The character preceding the three digits in the course number denotes the course's subdiscipline (i.e., "D" represents the subdiscipline code in the course number ABC.D400.R): M (Master's degree program)

【Graduate Attributes (GA) Table】

C0M：You will be able to delineate your career plan clearly and recognize the skills necessary to materialize that plan, taking into account its relation to society	C1M：You will be able to understand academic integrity, utilize your own expertise for the development of academia and technology, and work with others with different expertise to contribute to problem-solving
・Master's Career Design ・Global Career Development Literacy ・Master's Career Design Practice ・Master's Recurrent Program Advanced Practice 1-1 ・Master's Recurrent Program Advanced Practice 1-2 ・Master's Recurrent Program Advanced Practice 2	・Critical Thinking ・Smart Business Career Development ・Social and Business Rules and Ethics ・Social Contributions through Research ・Master's Research Internship ・Scientific Communication ・Master's Recurrent Program Advanced Practice 1-1 ・Master's Recurrent Program Advanced Practice 1-2 ・Master's Recurrent Program Advanced Practice 2

Doctoral Students

Doctoral students are required to fulfill the following conditions;

・Register in either the Academic Leader Program (ALP) or the Productive Leader Program (PLP) based on their individual career plans. IIDP will ask students to register in these programs six months after their doctoral degree program starts.

・Fulfill all of the Graduate Attributes (GA) shown in Table A1 and A2 and acquire at least four credits in career development courses. In addition to courses provided by the IIDP or equivalent courses specified by each graduate major, certain 600-level courses as shown in Table 2 are also appropriate for attaining GAs and credits.

* If a course fulfills more than one GA, acquiring credit in that course will fulfill all GAs that it is linked to.

Besides those listed above, leading graduate school programs, the Tokyo Tech Academy for Leadership (ToTAL) program, and the WISE Programs may offer courses equivalent to career development courses. For details about available courses or completion requirements, please refer to the study guide of the relevant program.

In addition, if a student changes his/her registration from the curriculum to ALP or PLP, GAs attained as career development skills in the former program can be carried over.

Table A-1 Academic Leader Program (ALP) Graduate Attributes

A0D	You will be able to precisely define your own career plan and train yourself to acquire the skills required for attaining your goals in academia
A1D	You will be able to ascertain the true nature of phenomena, master the secret of learning, and lead the vanguard of a new academic discipline or research area
A2D	You will be able to understand the position of academia in society as well as the notion of responsible conduct of research, and adequately explain academic progress to members of society, who are our stakeholders
A3D	With the understanding of the social roles and responsibilities of researchers, you will be able to nurture next-generation experts in educational institutions, instilling in them an interest in academia and enabling them to later join in the pioneering of new academic disciplines or research areas

Table A-2 Productive Leader Program (PLP) Graduate Attributes

P0D	You will be able to precisely plot your own career plan and train yourself to acquire the skills required for attaining your goals in industry, etc.
P1D	You will be able to precisely grasp the needs of society and detect its problems, comprehend relevant laws, regulations, or guidelines for responsible conduct of research, and lead future developments in science and technology
P2D	While leading teams consisting of members with varied specialties and value systems, you will be able to create products and enterprises that bring forth new values in society
P3D	With the understanding of the social roles and responsibilities of engineers, you will be able to nurture next-generation experts through the project, enabling them to help drive future development of society and industry

Table 2: Doctoral Degree Program courses (600 level)

Course category	Course number	Course title			Credits	GA*	Comments
600 level	LAC.A621			ALP Introduction	1-0-0	A1D	
	LAC.A631			ALP Practice I (Teaching Practice)	0.5-0.5-0	A2D, A3D	
	LAC.A635			ALP Practice II (Overseas Training)	0-0-1	A2D, A3D	Offered in English as needed The application document for this course is necessary.
	LAC.A639			ALP Practice III (Domestic Training)	0-0-1	A2D, A3D	Offered in English as needed The application document for this course is necessary
	LAC.A641			ALP Advanced Practice I	0.5-0.5-0	A1D, A2D, A3D	
	LAC.A642			ALP Advanced Practice II	0.5-0.5-0	A1D, A2D, A3D	
	LAC.A643			ALP Advanced Practice III	0.5-0.5-0	A1D, A2D, A3D	Cancelled in 2021 AY
	LAC.A644			ALP Advanced Practice IV	0.5-0.5-0	A1D, A2D, A3D	
	LAC.A645			ALP Advanced Practice V	0.5-0.5-0	A1D, A2D, A3D	
	LAC.C601			Doctoral Career Design	1-0-0	A0D, P0D	Offered to students who have not taken "Doctoral Career Design", "Doctoral Career Plan" ,"Doctoral Career Design I", or "Doctoral Career Design II"

				6			
	LAC.C603	★	Strategy for Balancing Career, Personality and Lifestyle	1-0-0	A0D, P0D	
	LAC.C620		Advanced Course on Social and Business Rules and Ethics	1-0-0	A1D, A2D, A3D, P1D, P2D, P3D	Creation of new course, effective from 2021 AY
	LAC.C621		Ethics of Scientists and Engineers	1-0-0	A2D, A3D, P1D, P3D	
	LAC.C643	★	Developing Career Adaptability for Global Competitiveness	1-0-0	A0D, A2D, A3D, P0D, P2D, P3D	
	LAC.C651	★	Technical Discussion	0-1-0	A2D, A3D, P2D, P3D	
	LAC.C657	★	Technical Writing	0-1-0	A1D, P1D	
	LAC.C663	★	R&D Activities of Global Companies	1-0-0	A1D, P1D	Offered to students who have taken neither "R&D Activities of Global companies I" nor "R&D Activities of Global companies II"
	LAC.P632		PLP Practice 1	0-0-1	P2D, P3D	Offered in English as needed Refer to the IIDP website for details
	LAC.P633		PLP Practice 2	0-0-2	P2D, P3D	Offered in English as needed

						Refer to the IIDP website for details
	LAC.P634		PLP Practice 4	0-0-4	P2D, P3D	Offered in English as needed Refer to the IIDP website for details
	LAC.P642		PLP Advanced Practice	0-1-0	P1D, P2D, P3D	
	LAC.P661		Doctoral Recurrent Program Advanced Practice 1	0-0-1	P0D, P1D, P2D, P3D	Change of course name (former course name： Recurrent Program Advanced Practice I), effective from 2021 AY. Offered in English as needed
	LAC.P662		Doctoral Recurrent Program Advanced Practice 2-1	0-0-2	P0D, P1D, P2D, P3D	Change of course name (former course name： Recurrent Program Advanced Practice I), effective from 2021 AY. Offered in English as needed
	LAC.P665		Doctoral Recurrent Program Advanced Practice 2-2	0-0-2	P0D, P1D, P2D, P3D	Change of course name (former course name： Recurrent Program Advanced Practice I), effective from 2021 AY. Offered in English as needed
	LAC.P663		Doctoral Recurrent Program Advanced Practice 3	0-0-3	P0D, P1D, P2D, P3D	Change of course name (former course name： Recurrent Program Advanced Practice I), effective from 2021 AY. Offered in English as needed

	LAC.P664			Doctoral Recurrent Program Advanced Practice 4	0-0-4	P0D, P1D, P2D, P3D	Change of course name (former course name： Recurrent Program Advanced Practice I), effective from 2021 AY. Offered in English as needed

Note：

• **★：offered in English in principle**

＊**GA: Graduate Attributes**

• The character preceding the three digits in the course number denotes the course's subdiscipline (i.e., "D" represents the subdiscipline code in the course number ABC.D600.R): A (Academic Leader Program), P (Productive Leader Program), C (Common for both programs)

【Graduate Attributes (GA) Table】

Academic Leader Program（ALP）

A0D: You will be able to precisely define your own career plan and train yourself to acquire the skills required for attaining your goals in academic	A1D：You will be able to ascertain the true nature of phenomena, master the secret of learning, and lead the vanguard of a new academic discipline or research area	A2D:You will be able to understand the position of academia in society as well as the notion of responsible conduct of research, and adequately explain academic progress to members of society, who are our stakeholders	A3D：With the understanding of the social roles and responsibilities of researchers, you will be able to nurture junior students in educational institutions, instilling in them an interest in academics and enabling them to later join in the pioneering of new academic disciplines or research areas
・Doctoral Career Design ・Strategy for Balancing Career, Personality and Lifestyle ・Developing Career Adaptability for Global Competitiveness	・ALP Introduction ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice IV ・ALP Advanced Practice V ・Advanced Course on Social and Business Rules and Ethics ・Technical Writing ・R&D Activities of Global Companies	・ALP Practice I(Teaching Practice) ・ALP Practice II(Overseas Training) ・ALP Practice III(Domestic Training) ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice IV ・ALP Advanced Practice V ・Advanced Course on Social and Business Rules and Ethics ・Ethics of Scientists and Engineers ・Developing Career Adaptability for Global Competitiveness ・Technical Discussion	・ALP Practice I(Teaching Practice) ・ALP Practice II(Overseas Training) ・ALP Practice III(Domestic Training) ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice IV ・ALP Advanced Practice V ・Advanced Course on Social and Business Rules and Ethics ・Ethics of Scientists and Engineers ・Developing Career Adaptability for Global Competitiveness ・Technical Discussion

Productive Leader Program（PLP）

P0D: You will be able to precisely plot your own career plan and train yourself to acquire the skills required for attaining your goals in industry, etc.	P1D：You will be able to precisely grasp the needs of society and detect its problems, comprehend relevant laws, regulations, or guidelines for responsible conduct of research, and lead future developments in science and technology	P2D: While leading teams consisting of members with varied specialties and value systems, you will be able to create products and enterprises that bring forth new values in society	P3D：With the understanding of the social roles and responsibilities of engineers, you will be able to nurture junior students through the project, enabling them to later join in the development of next-generation society and industry
・Doctoral Career Design ・Strategy for Balancing Career, Personality and Lifestyle ・Developing Career Adaptability for Global Competitiveness ・Doctoral Recurrent Program Advanced Practice 1 ・Doctoral Recurrent Program Advanced Practice 2-1 ・Doctoral Recurrent Program Advanced Practice 2-2 ・Doctoral Recurrent Program Advanced Practice 3 ・Doctoral Recurrent Program Advanced Practice 4	・Advanced Course on Social and Business Rules and Ethics ・Ethics of Scientists and Engineers ・Technical Writing ・R&D Activities of Global Companies ・PLP Advanced Practice ・Doctoral Recurrent Program Advanced Practice 1 ・Doctoral Recurrent Program Advanced Practice 2-1 ・Doctoral Recurrent Program Advanced Practice 2-2 ・Doctoral Recurrent Program Advanced Practice 3 ・Doctoral Recurrent Program Advanced Practice 4	・Advanced Course on Social and Business Rules and Ethics ・Developing Career Adaptability for Global Competitiveness ・Technical Discussion ・PLP Practice 1 ・PLP Practice 2 ・PLP Practice 4 ・PLP Advanced Practice ・Doctoral Recurrent Program Advanced Practice 1 ・Doctoral Recurrent Program Advanced Practice 2-1 ・Doctoral Recurrent Program Advanced Practice 2-2 ・Doctoral Recurrent Program Advanced Practice 3 ・Doctoral Recurrent Program Advanced Practice 4	・Advanced Course on Social and Business Rules and Ethics ・Ethics of Scientists and Engineers ・Developing Career Adaptability for Global Competitiveness ・Technical Discussion ・PLP Practice 1 ・PLP Practice 2 ・PLP Practice 4 ・PLP Advanced Practice ・Doctoral Recurrent Program Advanced Practice 1 ・Doctoral Recurrent Program Advanced Practice 2-1 ・Doctoral Recurrent Program Advanced Practice 2-2 ・Doctoral Recurrent Program Advanced Practice 3 ・Doctoral Recurrent Program Advanced Practice 4

Reference: Tokyo Tech Academy for Leadership (ToTAL)

A0D・A1D・A2D・A3D/ P0D・P1D・P2D・P3D	A0D・A1D・A2D・A3D	A0D・A3D/P0D・P3D	A2D/P2D
・Leadership Off-Campus Project	・Leadership Interdisciplinary Research Project	・Doctoral Practical Group Work for Leadership Ⅰ／Ⅱ ・Advanced Group Work for Leadership Ⅰ／Ⅱ	・Doctoral Essential Course of Group Work for Leadership