

## Transdisciplinary Science and Engineering Program Master's Course

Subject Type	Subjects	Eligible Class Year	No. of Credits		No. of Required Credits		
			Compulsory	Compulsory Elective			
Common Graduate Subjects	Sustainable Development Subjects	World Peace and HIROSHIMA	1・2		1	1 or more	2 or more
		Japanese Experience of Social Development- Economy, Infrastructure, and Peace	1・2		1		
		Japanese Experience of Human Development-Culture, Education, and Health	1・2		1		
		Academic approach to SDGs - A	1・2		1		
		Academic approach to SDGs - B	1・2		1		
		Practical Approach to SDGs	1・2		2		
		Understanding diversity and Inclusion	1・2		1		
	Career Development and Data Literacy Subjects	Data Literacy	1・2		1	1 or more	
		Data Literacy in Medicine	1・2		1		
		Career Management - Theory & Career Development	1・2		2		
		Career Management for Engineer	1・2		2		
		Stress Management	1・2		2		
		Information security	1・2		2		
		Introduction to MOT	1・2		1		
		Entrepreneurship	1・2		1		
Common Graduate School Subjects	Internationalism	Academic Writing I	1		1	1 or more	
		Exercises in International Academic Studies A	1・2		1		
		Exercises in International Academic Studies B	1・2		2		
	Sociality	MOT and Venture Business	1・2		1	2 or more	
		Technology Strategy for Management	1・2		1		
		Intellectual Property, Finance and Accounting	1・2		1		
		Technology Transfer	1・2		1		
		PBL for Technology Transfer	1・2		1		
		Future Creation Thinking (Basic)	1・2		1		
		International Standardization for Rule Making	1・2		1		
		Management of Technology for Science and Engineering	2		1		
		Idea Mining Workshop	1・2		1		
		Business Creation Practicum	1・2		1		
		Introduction to Fieldwork Method and Practice	1・2		1		
		Internship	1・2		1		
		Data Visualization A	1・2		1		
		Data Visualization B	1・2		1		
		Principles of Environment A	1・2		1		
		Principles of Environment B	1・2		1		
Subjects Specialized for the Program	Special Exercises of Advanced Science and Engineering Transdisciplinary Science and Engineering A	1	2		8		
	Special Exercises of Advanced Science and Engineering Transdisciplinary Science and Engineering B	1	2				
	Special Study of Advanced Science and Engineering Transdisciplinary Science and Engineering	1~2	4				
	Earth Materials	1・2		2			
	Dynamics of Earth Surface Material Cycle	1・2		2			
	Risks and Sciences in Natural Environment	1・2		2			
	Global Fluid Dynamics and Natural Disaster Prevention	1・2		2			
	Fundamentals of Complex Matter	1・2		2			
	Complex Materials Science	1・2		2			
	Structure of Complex Matter	1・2		2			
	Quantum Theory of Correlated Matter	1・2		2			
	Correlated Materials Science	1・2		2			
	Spectroscopies of Correlated Matter	1・2		2			
	Information Systems	1・2		2			
	Information Security	1・2		2			
	Computational Science	1・2		2			
	Computational Statistics	1・2		2			
	Media Communication	1・2		2			
	Sustainability Materials Science	1・2		2			
	Seminar in Integrated Arts and Sciences	1・2		2			
Environmental Management	1・2		2				

Subject Type	Subjects	Eligible Class Year	No. of Credits		No. of Required Credits	
			Compulsory	Compulsory Elective		
	Developing Designing Ability	1·2		2	8 or more	25 or more
	International Environmental Cooperation Studies	1·2		2		
	Practical Seminar on International Cooperation Project	1·2		2		
	Development Technology	1·2		4		
	Transportation Engineering	1·2		2		
	Transportation Planning	1·2		2		
	Regional and Urban Engineering	1·2		2		
	Tourism Policy	1·2		2		
	Fundamentals of Survey Methodology	1·2		2		
	Risk Management Technology	1·2		2		
	Sustainable Architecture A	1·2		2		
	Sustainable Architecture B	1·2		2		
	Energy Science and Technology	1·2		2		
	Numerical Environmental Impact Assessment I	1·2		2		
	Numerical Environmental Impact Assessment II	1·2		2		
	Geographic Information System Technology	1·2		2		
	Botany Resources for the Future	1·2		2		
	Environmental Monitoring	1·2		2		
	Biomass Energy Technology	1·2		2		
	Ecosystem Conservation and Management Science	1·2		2		
	Management and Conservation of Ecosystems	1·2		2		
	Environmental Health Science	1·2		2		
	Urban Environmental Science	1·2		2		
	Environmental Epidemiology	1·2		2		
	Data Analytics for Sustainable Development	1·2		2		
	Special Seminar for Linkage Program I	1·2		2		
	Special Seminar for Linkage Program II	1·2		2		
	Joint Exercises in Advanced Science and Engineering Transdisciplinary Science and Engineering	1~2		2		
	Subjects Specialized for Other Programs				2 or more	

### 【Registration Method and Completion Requirements】

To complete your master's course, you need to earn 30 or more credits based on the following requirements, receive necessary research guidance, and pass the master's thesis screening and the final examination or the qualifying examination for research in the doctoral course.

Necessary No. of Credits for Completing Your Course: 30 or more credits

(1) Common Graduate Subjects : 2 or more credits

- Sustainable Development Subject: 1 or more credits
- Career Development and Data Literacy Subject: 1 or more credits

(2) Common Graduate School Subjects : 3 or more credits

- Internationalism: 1 or more credits
- Sociality: 2 or more credits

(3) Subject Specialized for the Program: 25 or more credits

- Subject Specialized for the Transdisciplinary Science and Engineering Program : 16 or more credits (8 credits of compulsory subjects and 8 or more credits of compulsory elective subjects)
- Subjects Specialized for Other Programs: 2 or more credits

If you have earned credits of subjects specialized for other divisions or graduate schools after obtaining approval from your supervisor/subadvisor, you can include them in the credits of Subjects Specialized for Other Programs.

(Note) Eligible Class Year

1: Register in the first year; 2: Register in the second year; 1~2: Register in the first and second years; and 1·2: Register regardless of your year