

Tohoku University "Course Numbering" Implementation Manual

Approved by the Academic Affairs Council on November 10, 2014

Revised draft by the Educational Records and Programs Committee of the Academic Affairs Council on

July 27, 2015

I. What is Course Numbering?

Course Numbering is a system in which codes indicating various information, including the correlation among courses and levels of difficulty, are assigned to each course in order to simply and clearly represent the education curriculum so as to facilitate understanding of the curriculum structure.

In the Satomi Vision 1 Strategic Focus [1] "Educational reforms, aimed at fostering global leaders, centered on improving the humanities curriculum," Course Numbering is listed as an example of efforts to develop an internationally compatible educational system.

It can also be referred to simply as "Numbering."

II. The Purpose/Necessity of Implementation

By assigning codes and numbers to each course to clarify its difficulty level/characteristics, significance, and the sequence in which courses should be taken, students can understand which courses they should register for, the role of each course within the undergraduate/graduate curriculum, and each course's objectives.

We will be able to organize the education curriculum systematically and sequentially and familiarize the students with it, and by creating a curriculum map and other methods, it will be possible to check whether each course structure is suitable for the diploma/curriculum policy of the hosting faculty/school, whether the course subject fields are well-balanced, etc..

Also, clarification of course levels is expected to facilitate credit transfers with overseas universities.

III. Coding Method

Course Numbering at this university will be organized as follows.

As a general rule, the codes will be fixed for each course, instead of being reassigned every academic year. However, codes may be reassigned in some cases, such as when there are major revisions in the course content.

However, when the Educational Records and Programs Committee of the Academic Affairs Council has approved exceptions based on special circumstances, such cases may be handled differently.

1. Course Numbering Code:

<u>A</u>	<u>BC</u>	-	<u>DEF</u>	<u>1</u>	<u>23</u>	<u>G</u>
[1]	[2]		[3]	[4]	[5]	[6]

2. Meanings of Codes:

- [1] Hosting Faculty/School
- [2] Department/Major (For General Education, Subject Category/Group)
- [3] Academic Field
- [4] Level/Characteristics
- [5] Classification Number
- [6] Language Used in Course

3. Table of Codes:

[1] List of Faculty/School Codes [one letter]

These codes shall be the same as the letter that indicates the affiliated faculty/graduate school, shown as the third letter of the student ID number; General Education Subjects and Teacher Training Subjects will be assigned one letter each that is not already in use.

Faculties/Schools	Code	Faculties/Schools	Code
Faculty/Graduate School of Arts and Letters	L	Graduate School of International Cultural Studies	K
Faculty/Graduate School of Education	P	Graduate School of Information Sciences	I
School/Graduate School of Law	J	Graduate School of Life Sciences	B
Faculty of Economics/Graduate School of Economics and Management	E	Graduate School of Environmental Studies	G
Faculty/Graduate School of Science	S	Graduate School of Biomedical Engineering	W
School/Graduate School of Medicine	M	Graduate School of Educational Informatics Education Division	F
School/Graduate School of Dentistry	D	General Education Subjects	Z
Faculty/Graduate School of Pharmaceutical Sciences	Y	Teacher Training Subjects	Q
School/Graduate School of Engineering	T		
Faculty of Agriculture/Graduate School of Agricultural Sciences	A		

[2] List of Department/Major Codes [two letters]

As of July 27, 2015

Faculty/School	Department, etc.		Code	
Major-specific courses without designated department, etc. (common courses for all faculties)			AL	
Arts and Letters	Humanities and Social Sciences		HM	
Education	Educational Science		ES	
Law	Law		LA	
Economics	Economics		EC	
	Business Administration		BA	
Science	Mathematics		MA	
	Physics		PH	
	Astronomy and Geophysics		AG	
	Chemistry		CH	
	Geoenvironmental Science		GS	
	Earth and Planetary Materials Science		EP	
	Biology		BI	
Medicine	Medicine		MD	
	Health Sciences	Nursing	NS	
		Radiological Technology		RT
		Medical Technology		MT
Dentistry	Dentistry		DE	
Pharmaceutical Sciences	Pharmacy		PH	
	Pharmaceutical Sciences		PS	

Engineering	Mechanical and Aerospace Engineering		MA
	Electrical, Information and Physics Engineering (From Academic Year 2015)		EI
	Information and Intelligent Systems (Closed by Academic Year 2014)		II
	Applied Chemistry, Chemical Engineering and Biomolecular Engineering		CH
	Materials Science and Engineering		ME
	Civil Engineering and Architecture		CA
Agriculture	Applied Bio-Sciences		BS
	Applied Biological Chemistry		BC
General Education Subjects	Core Subjects	Human Studies	BH
		Social Studies	BS
		Science Studies	BN
	Expansion Subjects	Human Sciences	DH
		Social Sciences	DS
		Natural Sciences	DN
		Integrated Sciences	DG
	Common Subjects	Small-Group Freshmen Seminars	CS
		Foreign Languages	CF
		Information Sciences	CI
		Health Sciences	CP
		Subjects for International Students	CJ
	Teacher Training Subjects		TL

Graduate School	Major	Code
Courses without designated major, etc. (common courses for all graduate schools)		AL
Arts and Letters	Humane Studies	HS
	Linguistic Studies	LI
	Historical Studies	HI
	Human Sciences	HU
Education	Educational Science	ES
	Educational Design and Measurement	EM
Law	Law and Society	LS
	Public Law and Policy	PP
	Legal and Political Studies	LP
Economics and Management	Economics and Management	EM
	Accountancy	AC
Science	Mathematics	MA
	Physics	PH
	Astronomy	AS
	Geophysics	GP
	Chemistry	CH
	Earth Science	ES

Medicine	Medical Sciences	MD
	Disability Science	DS
	Health Sciences	HS
	Public Health(From Academic Year 2015)	PH
Dentistry	Dental Sciences	DE
Pharmaceutical Sciences	Molecular Pharmaceutical Science	MP
	Life and Pharmaceutical Science	LP
	Pharmacy	PH
Engineering	Mechanical Systems Engineering (From Academic Year 2016)	MF
	Mechanical Systems and Design (Closed by Academic Year 2015)	MD
	Finemechanics (From Academic Year 2016)	FM
	Nanomechanics (Closed by Academic Year 2015)	NM
	Aerospace Engineering	AE
	Quantum Science and Energy Engineering	QE
	Electrical Engineering	EC
	Communications Engineering	CM
	Electronic Engineering	EE
	Applied Physics	AP
	Applied Chemistry	AC
	Chemical Engineering	CE
	Biomolecular Engineering	BE
	Metallurgy	ML
	Materials Science	MS
	Materials Processing	MP
	Civil and Environmental Engineering	CI
	Architecture and Building Science	AB
	Management Science and Technology	MT
	Robotics (From Academic Year 2016)	RT
	Bioengineering and Robotics (Closed by Academic Year 2015)	BR
Agriculture	Biological Resource Sciences	BR
	Life Sciences	LS
	Bioscience and Biotechnology for Future Bioindustries	BB
International Cultural Studies	International Cultural Studies (From Academic Year 2015)	IC
	Area Studies (Closed by Academic Year 2014)	AS
	Intercultural Relations (Closed by Academic Year 2014)	IR
	Language Studies (Closed by Academic Year 2014)	LS
Information Sciences	Computer and Mathematical Sciences	CO
	System Information Sciences	SY
	Human-Social Information Sciences	HU
	Applied Information Sciences	AI

Life Sciences	Biomolecular Sciences	BS
	Developmental Biology and Neurosciences	DB
	Environmental Life Sciences	EL
Environmental Studies	Environmental Studies for Advanced Society (From Academic Year 2015)	ES
	Frontier Sciences for Advanced Environment (From Academic Year 2015)	EF
	Environmental Studies (Closed by Academic Year 2014)	EN
Biomedical Engineering	Biomedical Engineering	BI
Educational Informatics Education Division	Educational Informatics	EI

[3] Academic Field Codes [three letters]

See attached list

[4] List of Levels/Characteristic Codes [one number]

Degree Program	Level/Characteristics	Code
Undergraduate	General Education Subjects (excluding advanced foreign language courses) and similar courses	1
	Introductory courses, General Education Subjects (advanced foreign language courses)	2
	Courses with developmental content	3
	Courses related to graduation thesis, graduation research project, and clinical training	4
Graduate School (Master/Professional)	Introductory courses, common courses for all graduate schools	5
	Courses with developmental content, research direction courses	6
Graduate School (Doctor)	Major-specific courses	7
Courses to broaden student perspective (interdisciplinary, overview, etc.)		8
Courses for which categorization by level etc. is difficult (study abroad, courses related to internships, etc.)		9

(Examples of level codes for General Education Subjects)

Category/Group/Subject			Code
Core Subjects			8
Expansion Subjects	Human Sciences, Social Sciences, Natural Sciences		1
	Integrated Sciences		8
Common Subjects	Introductory Seminar		8
	Foreign Languages (English)	English A1, A2, B1, B2	1
		English C1, C2, Practical English Skills 1/2	2
	Foreign Languages (Second languages)	Introduction to Foreign Language I, II	1
		Foreign Language in Practice I, II, III, IV	2
	Others		1
Teacher Training Subjects			1

[5] Classification Number [two numbers, assigned as necessary by each faculty]

There is no need to number all the courses offered by a faculty serially from 01 to 99. It is enough to assign numbers so as to not repeat numbers in courses in one of the categories coded by

the above methods from [1] to [4]. Therefore, even if there are more than 100 courses offered in a faculty, the two-digit system should be sufficient.

(Example of Code Assignment to General Education Subjects)

Human Sciences Group "Literature" ZDH-LIT103

Foreign Languages "English B1" ZCF-ENG103

If there are more than 100 courses offered in an academic field which is not broken down into smaller categories and therefore the two-digit system is insufficient, it shall be handled by adding/further categorizing [3] Academic Field Code.

[6] List of Codes for Language Used in Course [one letter]

Languages used in courses will be coded as follows.

Language Used in Course	Code
Japanese	J
English	E
Non-English foreign languages	F
Two languages or more	B

These codes will be assigned based on the teaching faculty for the course, in accordance with the syllabus of the pertinent academic year. The curriculum map will use codes without additional information, while the syllabus for students etc. will use codes with additional information.

(Ex.) General Education Subjects "Foundation of Calculus" taught by Professor XX (Japanese)
ZDN-MAT104J

General Education Subjects "Foundation of Calculus" taught by Associate Professor YY
(English) ZDN-MAT104E

Caution:

The translations are unofficial.

Only the original Japanese texts of the Implementation Manual have legal effect, and the translations are to be used solely as reference materials to aid in the understanding of the Japanese Implementation Manual.

Tohoku University "Course Numbering"[3] Academic Field Codes List

As of January 27, 2016

Area	Discipline	Code
Informatics	Principles of Informatics	PRI
	Principles of Informatics	PIN
	Human informatics	HUI
	Frontiers of informatics	FRI
	Other informatics	OIN
Environmental science	Environmental social sciences	ENS
	Sustainable and environmental system development	SUD
	Environmental engineering	EEG
	Global environment and earth science	GEE
	Environmental humanities	EHS
	Environmental analysis and evaluation	ENE
	Environment geography	EGE
	Natural environmental sciences	NES
	Other environmental science	OES
Complex systems	Design science	DES
	Human life science	HUS
	Science education/ Educational technology	SCT
	Sociology/History of science and technology	SOT
	Cultural assets study and museology	CUM
	Geography	GEO
	Social/Safety system science	SOS
	Biomedical engineering	BME
	Health/Sports science	HES
	Childhood science	CHS
	Biomolecular science	BIS
	Brain sciences	BRS
	Other complex systems	OCO
Humanities/ Social sciences	Area studies	ARS
	Gender	GEN
	Tourism Studies	TOS
	Religious studies	RES
	Other humanities/ social sciences	OHS
Humanities	Philosophy	PHI
	Art studies	ART
	Literature	LIT
	Linguistics	LIN
	History	HIS
	Human geography	HUG
	Cultural anthropology	CUA
	Comparative literature and culture	CLC
	Other humanities	OHU
Social sciences	Law	LAW
	Politics	POL
	Public Policy	PUP
	Economics	ECO
	Management	MAN

Social sciences	Accounting	ACC
	Economics and management	ECM
	Sociology	SOC
	Psychology	PSY
	Education	EDU
	Educational technology	EDT
	International political and economic relations	IPE
	Other social sciences	OSO
Interdisciplinary science and engineering	Nano/Micro science	NAS
	Applied physics	APP
	Quantum beam science	QUS
	Computational science	COS
	Other interdisciplinary S/E	OIS
Mathematical and physical sciences	Mathematics	MAT
	Algebra	ALG
	Geometry	GEM
	Analysis	ANA
	Manifold theory	MFT
	Applied mathematics	APM
	Astronomy	AST
	Physics	PHY
	Condensed matter physics	CMP
	Particle and nuclear physics	PNP
	Earth and planetary physics	EPP
	Earth and planetary science	EAS
	Plasma science	PLS
	Other mathematical and physical sciences	OMA
Chemistry	Basic chemistry	CHE
	Inorganic and analytical chemistry	INO
	Organic chemistry	ORG
	Physical chemistry	PCH
	Biochemistry	BIC
	Applied chemistry	APC
	Materials chemistry	MAC
	Other chemistry	OCH
Engineering	Mechanical engineering	MEE
	Electrical and electronic engineering	ELE
	Electromagnetism	ELM
	Quantum Mechanics	QTM
	Electrical, Information and Physics Engineering	EIP
	Civil and Environmental Engineering	CEE
	Civil and Architectural Engineering	CAE
	Building Structures/Materials	ABS
	Building science/Building equipment	ABE
	Urban planning/Architectural planning	ABP
	Architectural history/Design	ABD
	Material science and engineering	MSE
	Process/Chemical engineering	PRE
	Integrated engineering	INE
	Other Engineering	OEN

Biological Sciences	Neuroscience	NEU
	Laboratory animal science	LAS
	Oncology	ONC
	Genome science	GES
	Conservation of biological resources	COR
	Other biological sciences	OBS
Biology	Biological Science	BIO
	Basic biology	BAB
	Anthropology	ANT
	Other biology	OBI
Agricultural sciences	Plant production and environmental agriculture	PLA
	Agricultural chemistry	AGC
	Forest and forest products science	FOS
	Applied aquatic science	APS
	Agricultural science in society and economy	AGE
	Agro-engineering	AGR
	Animal life science	ANS
	Boundary agriculture	BOA
	Other agricultural sciences	OAG
Medicine, dentistry, and pharmacy	Pharmacy	PHA
	Basic medicine	BAM
	Public Health	PUH
	Clinical medicine	CLM
	Dentistry	DEN
	Fundamental nursing	FMN
	Clinical nursing	CLN
	Fundamental radiological science	FRS
	Clinical radiological science	CRS
	Laboratory medicine and basic sciences	LBS
	Laboratory medicine and clinical sciences	LCS
	Other medicine, dentistry, and pharmacy	OME
Foreign language education	English	ENG
	German	GER
	French	FRE
	Russian	RUS
	Spanish	SPA
	Chinese	CHN
	Korean	KOR
	Greek	GRE
	Sanskrit	SAN
	Latin	LAT
	Mongolian	MON
	Italian	ITA
	Czech	CZE
	Arabic	ARA
	Japanese	JPN
	Other Foreign Languages	OFL

Interdisciplinary area	World of thoughts and ethics	WTE
	World of literature	WLI
	World of expression	WEX
	World of fine arts	WFA
	People and culture	PCU
	History and human society	HHS
	Economy and society	ESO
	Law, politics and society	LPS
	Study of society	SSO
	Gender and human society	GHS
	Study of nature	SNA
	Scientific technology and energy	STE
	Life and nature	LNA
	Nature and environment	NEN
	Science and information	SIN
Other area	Introductory science experiments	ISE
	Introductory seminar	IDS
	Natural science	SCI
	Ethics of Research	ETH
	Other area	OAR