

MUST Curriculum Guide for
Undergraduate and Graduate for
Academic Year 2019
(Continuing Education)

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MUST Curriculum Guide for Graduate Students for Academic Year 2019-2020
Institute of Mechatronics Engineering (Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C					
Course title		Cr.	Hr.		
E	Seminar and Technical Writing	3	3		
	Micro machining technology	3	3		
	Laser technology and application	3	3		
	Applications in Computer-Aided Engineering	3	3		
	Integration and Analysis of Mechanism	3	3		
	Surface Treatment Theory	3	3		
	Introduction to design and analysis of experiments	3	3		
	Numerical Analysis	3	3		
	Introduction to Solid Mechanics	3	3		
	Elasticity	3	3		
	Principles and Application of Tribology	3	3		
	Introduction of Mechanical Properties of Materials	3	3		
	System vibration	3	3		
	Six Sigma Quality Control	3	3		
	Modern control method	3	3		
	Technology of Computer-aided Control	3	3		
	Calculation of Thermal engineering	3	3		

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	Thesis	3	3	3	3
Summation		3	3	3	3
Course title		Cr.	Hr.		
E	Laser technology and application	3	3		
	Image inspection technology	3	3		
	Introduction to robotics	3	3		
	Linear system	3	3		
	Adaptive Control	3	3		
	Control Optimization	3	3		
	Intelligent Control	3	3		
	Nonlinear Mechanics	3	3		
	Convection Heat Transfer	3	3		
	Mechanical Metallurgy	3	3		
	Finite element analysis	3	3		
	Analysis of Reliability	3	3		
	Advanced Robotics	3	3		
	3D Reverse Rapid Design	3	3		

Item	Cr.	Hr.
※Compulsory Profession Courses	6	6
Elective Courses	24	24
Total	30	30

C/E = Compulsory / Elective

Cr./Hr.=Credit/Hour



Remarks:

1. Graduate students shall take 6~15 credits each semester for the 1st academic year and 3~15 credits each semester for the 2nd academic year.
2. Minimum credits required for graduation: 30 credits with 6 compulsory credits ; Elective credits: 24 credits with some pre-approved inter-institution elective credits .
3. The Elective Courses Should be taken at least 15 credits from Institute of Precision Mechatronic Engineering .
4. The list above is for reference only; it is subject to adjustment without notice .
5. All six credits of thesis will be given only after passing oral exam.

機械系主任 戴任詔

工學院院長 呂明峰

MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2022, Department of Mechanical Engineering (Division of Continuing Education)

Year I (2019)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Physical Education	1	2	1	2	
☆All-out defense education military training (I)(II)	0	1	0	1	
◎Chinese Reading and Expressions (I) (II)	2	2	2	2	
◎English (I) (II)	2	2	2	2	
△Physics (I) (II)	2	2	2	2	
△Experiment in Physics (I) (II)	1	2	1	2	
△Calculus (I) (II)	3	3	3	3	
△Chemistry			2	2	
※Manufacturing Processes	3	3			
※Application of Computer Language	1	2			
※Mechanical Drawing			2	3	
Summation	15	19	15	19	

Year II (2020)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Technical English (I) (II)	2	2	2	2	
◎The Theory of History and Civilization	2	2			
◎Law, Politics and Society			2	2	
※Mechanical Materials	3	3			
※Electrical Machinery Practice			2	2	
※Computer Aided Mechanical Drafting	2	3			
※Engineering Mathematics (I)	3	3			
※Mechanism			3	3	
※Thermodynamics			2	2	
※Mechanics of Materials			3	3	
※Material Testing			2	3	
※Applied Mechanics (Statics)	3	3			
◎Ethics for Engineers	1	1			
◎Classified General Education	2	2	2	2	
Summation	18	19	18	19	
Modern manufacturing technology	3	3			
3D-Computer-Aided Drafting	3	3			
Introduction of Automation			3	3	
Micro Machining Technology			3	3	
◇Enterprise Practices (I) (II)	3	3	3	3	

Year III (2021)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Classified General Education	2	2	2	2	
※Electronics Practice	2	2			
※Design of Machine Elements	3	3			
※Precision Instrument and Parts Inspection	2	3			
※Dynamics	2	2			
※Hydraulics and Pneumatics Practice			3	3	
※Automatic Control Practice			3	3	
※Mechanical Design and Drawing			2	3	
※Project (I)			1	1	
Summation	11	12	11	12	
Introduction to green technique and engineering	3	3			
CNC Machine Center	3	3			
Semiconductor Manufacturing Process and Equipments	3	3			
Computer-Aided Manufacturing Practice in Solar Thermal Energy			3	3	
Computer-Aided Engineering			3	3	
Quality Control			3	3	

Year IV (2022)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
※Project (II)	1	1			
Summation	1	1	0	0	
Materials Science and Engineering	3	3			
CAD/CAM Application of the Actual Situation	3	3			
Introduction of automotive mechanics	3	3			
Introduction to Technology Management	3	3			
Metal Surface Treatment and Protection	3	3			
Introduction to Nanotechnology	3	3			
Patent practice	3	3			
Nanomaterials theorem and application	3	3			
Practices of Reliability Engineering	3	3			
Computer aid mold design			3	3	
Human Machine Interface (HMI) Practice			3	3	
Technology in Reverse Engineering			3	3	
Molding Analysis & Lab.			3	3	
Engineering Japanese			3	3	
Planning and management to environ quality			3	3	
Automation, Production Systems, and Computer-Integrated Manufacturing			3	3	
Powder Metallurgy Science			3	3	
Design and Practices of Transmission Devices			3	3	
Practice and Analysis of Photo-Mechanical Experiments			3	3	
Fluid Mechanics			3	3	

Item	Cr.	Hr.
◎General Compulsory Courses	27	29
△ Basic Compulsory Profession Courses	14	16
※Compulsory Profession Courses	48	54
Elective Courses	39	39
☆All-out defense education military training	0	2
Total	128	140

C/E = Compulsory / Elective
Cr./Hr.=Credit/Hour

Remarks:

1. Minimum credits required for graduation: 128 credits with 89 compulsory credits; elective credits: 39 credits with some pre-approved inter-institution elective credits.
2. Department of M.E. permits students to take electives outside the department, however, the total taken ME elective should not be lower than 27 credits.
3. The list above is for reference only; it is subject to adjustment without notice.
4. ◇:Enterprise elective courses (for dual system of vocational planing project).



机械系王派祥
課務委員

机械系主任 戴任詔

工学院院长 呂明峰

MUST Curriculum Guide for Graduate Students for Academic Year 2019-2020 Department of Electrical Engineering(Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Special Research and Discussion	1	2		
	※Research Methodology and Thesis Writing			2	2
Summation		1	2	2	2
E	Wireless Systems	3	3		
	Advanced Electromagnetic Theory	3	3		
	Advanced Power Electronics	3	3		
	Control ASIC Design	3	3		
	Coding Theory	3	3		
	Motor Servo Control	3	3		
	Advanced Microwave Engineering	3	3		
	Antenna Engineering	3	3		
	Digital Communication Theory	3	3		
	Control & Operation of Power Systems	3	3		
	Advanced Digital Signal Processing	3	3		
	Adaptive Signal Processing	3	3		
	Embedded Systems and Applications			3	3
	Electric Product Design Practice			3	3
	Fuzzy Control			3	3
	Power Transient Analysis			3	3
	Mobile Communication			3	3
	Queuing Theory			3	3
	Neural Network			3	3
	Computer-Application of Power System			3	3
	Speech Signal Processing			3	3
	Control in Power Electronics Systems			3	3
	The Design of Digital Integrated Circuits			3	3
	Neural Network			3	3
	Power Electronic Control by FPGA			3	3
	Mechatronics to Electric Car			3	3
	Control System of Power Electronics			3	3
	Analysis and Design of PWM Control IC			3	3
	Linear System Theory			3	3
	Artificial Intelligent			3	3

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※ Thesis(I)(II)	3	3	3	3
Summation		3	3	3	3
E	Product Reliability Analysis	3	3		
	Robust Control	3	3		
	Wave Propagation and Applications	3	3		
	Intelligent Antenna Theory	3	3		
	Computer Graphics	3	3		
	Analog Integrated Circuits	3	3		
	Independent Study	1	1	1	1
	Power Quality			3	3
	Design of RF Circuits			3	3
	Design and Measurement of Electromagnetic Compatibility			3	3
	Deregulation of Power Systems			3	3
	Advanced Computer Architecture			3	3
	Advanced Operating Systems			3	3
	Fault Analysis of Power Systems			3	3
	Saving and Management of Power Energy			3	3
	Nature Inspired Algorithms			3	3
	The Design and Analysis of CMOS Analog Integrated Circuits			3	3
	The Design and Analysis of CMOS Digital Integrated Circuits			3	3
	Applications of Power Electronics			3	3
	Optimization Algorithms			3	3
	Green energy engineering technology			3	3

Item	Cr.	hr.
※Compulsory Profession Courses	9	10
Elective Courses	21	21
Total	30	31

C/E = Compulsory / Elective

Cr./hr.=Credit/Hour

**明新科技大學電機系
課務規劃委員會章**

電機系主任 蔡明發

工學院院長 呂明峰

Remarks :

1. Minimum requirement for graduation: 30 credit hours. Required courses: 9 credit hours. Technical electives: 21 credit hours.
2. Technical electives taken at this departments should be more than 15 credit hours.
3. Students shall take total 6 credits of "Thesis" course. (all of the 6 credits will be counted together after passing the defense qualification of thesis)
4. The technical electives listed in the table are for reference only and will be modified according to the real demand.

**MUST Curriculum Guide for Undergraduate Students of Academic Year 2019-2022, Department of Electrical Engineering
(Continuing Education)**

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Physical Education	1	2	1	2
	◎Chinese Reading and Expressions (I)(II)	2	2	2	2
	◎English (I)(II)	2	2	2	2
	◎Classified General Education			2	2
	△Physics (I)(II)	2	2	2	2
	△Physics Laboratory (I)(II)	1	2	1	2
	△Calculus (I)(II)	3	3	3	3
	△Chemistry			2	2
	※Introduction to Computer Science	3	3		
	☆All-out! Defense Education Training (I)(II)	0	1	0	1
Summation		14	17	15	18
E	Introduction to Electric Machines	2	2		

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2
	◎Technical English(I)(II)	2	2	2	2
	◎The Theory of History and Civilization	2	2		
	◎Law, Politics and Society			2	2
	◎Ethics for Engineers	1	1		
	※Electric Circuit (I)(II)	3	3	3	3
	※Engineering Mathematics (I)(II)	3	3	3	3
	※Basic Circuit Lab	1	2		
	※Digital Logic Design	3	3		
	※Programming Language			3	3
Summation		17	18	15	15
E	Introduction to Electric Car	3	3		
	Micro-computer Application Practice			3	3

Course type	Cr.	hr.
◎General Education Courses	27	29
△Basic Professional Courses (required by school)	14	16
※Required Professional Courses	45	51
Elective Courses	42	42
☆All-out Defense Education Training(I)(II)	0	2
Total	128	140

Year III (2021)					Year IV (2022)						
Course title		1st semester		2nd semester		Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.
C	◎Classified General Education			2	2	C	※Special Practical Projects	1	2	1	2
	※Electronics (I)(II)	3	3	3	3						
	※Electronic Lab (I)(II)	1	2	1	2						
	※Principles of Communications	3	3								
	※Power Systems (I)	3	3								
	※Electrical Machinery	3	3								
	※Electrical Machinery Lab	1	2								
	※Automatic Control			3	3						
Summation		14	16	9	10	Summation		1	2	1	2
E	Control Systems	3	3			E	Industry in Japanese (II)	3	3		
	Mechatronics	3	3				Computer Applications in Power systems	3	3		
	Electromagnetics	3	3				AC Servo-control Drives	3	3		
	Design of Graphical Control Systems	3	3				Introduction to Mobile Communications	3	3		
	Freezing and Air-Conditioning Engineering	3	3				Industrial Management	2	2		
	Data Structure	3	3				Digital Signal Processing	3	3		
	Audio Techniques	3	3				System Dynamics	3	3		
	Network Analysis	3	3				Renewable Energy Generation Systems	3	3		
	Signal and Systems	3	3				Computer Organization	3	3		
	Network Communications	3	3				Image Processing	3	3		
	System Simulation Practice	3	3				RFID EMC and Testing	3	3		
	Computer Network Practice	3	3				Microwave Engineering	3	3		
	Communication Systems			3	3		Control of Electric Power Loads	3	3		
	Power Systems (II)			3	3		Supervisory and Control of Solar Energy Generation Systems	3	3		
	Communication Electronics			3	3		Automatic Control Practice	3	3		
	Industry in Japanese (I)			3	3		Electric Machine Control Practice	3	3		
	Network Protocols			3	3		Power Electronics Practice	3	3		
	Driving Circuit for Plane Display			3	3		EMC Practice	3	3		
	Digital Control			3	3		Digital Communication Practice	3	3		
	Programming Logic Design			3	3		Wind Power Generation and Energy Conversion			3	3
	Fuel Cell and Processing Control			3	3		Solar Energy Engineering			3	3
	Power Electronics			3	3		Communication Interface Design			3	3
	Power System Practice			3	3		Digital Communications			3	3
	Basic Communication Practice			3	3		Multimedia Design			3	3
	Circuit Layout Practice			3	3		CMOS Analog Integrated Circuits			3	3
	Graphical Control Simulation Practice			3	3		CMOS Digital Integrated Circuits			3	3
	Circuit Simulation Practice			3	3		Introduction to Wireless Communications			3	3
Freezing and Air-conditioning Engineering Practice			3	3	Adaptive Filters			3	3		
					Visual Control Practice			3	3		
					Fuzzy Control Practice			3	3		
					Image Processing Practice			3	3		
					Radio Frequency Circuit Practice			3	3		

Remarks :

1. Minimum requirement for graduation is 128 credit hours, which include 86 required-credit hours and 42 credit hours of technical electives (some of the technical electives can be taken at other departments)
2. Of the 42 credit hours of technical electives there should be more than 30 taken at this department.
3. The technical electives listed in the table are for reference only and will be modified according to the real demand.

電機系 蔡明發 主 任

工學院 呂明峰 院 長

**MUST Course Selection Guideline for Graduate Students of Academic Year 2019-2020,
Department of Electronic Engineering (Continuing Education)**

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Seminar	1	2		
	※Research methods and thesis writing			2	2
Summation		1	2	2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Thesis(I)(II)	3	3	3	3
Summation		3	3	3	3

1st Semester		
(Electronics) Course Title	Cr.	hr.
AI Machine Learning Language	3	3
Digital Integrated Circuit Layout Designs	3	3
Semiconductor Manufacturing and Integration Technique	3	3
Integrated Circuits Measurement Techniques	3	3
Semiconductor Physics	3	3
Power Integrated Circuits Design	3	3
Semiconductor Power Discrete Device	3	3
Introduction to System on Chip	3	3
Memery Circuit Layout Designs	3	3
RF Circuits Design	3	3
Microwave Engineering	3	3
Microstrip Antenna Design	3	3
Digital Communication Theory	3	3
TCL/TK Auto-Layout Designs	3	3
AI Package and Testing Practices	3	3
E-commerce System	3	3
3D Game Design	3	3
Solar Photovoltaic Power Technology	3	3
AI Touch Technology	3	3
Summation	57	57

[illegible]

Course type	Cr.	hr.
※Compulsory Profession Courses	9	10
Elective Courses	21	21
Total	30	31

C/E = Compulsory / Elective

Cr./hr.=Credit/Hour

Remarks

1. Graduate students shall take 6-15 credits each semester for the 1st academic year and 3-15 credits each semester for the 2nd academic year.
2. The minimum credits required for graduation are 30: required credits including 9 credits of thesis and 21 elective courses in the major.
3. The inter-departmental elective credits are transferable, but the professional elective course credits shall not be fewer than 15.
4. The grade for the credits will be recorded following the oral examination.
5. Students may take elective courses of different semesters under the suggestions of their advisors without the constraints of academic years.
6. The elective courses in the tables are for reference and subject to change as necessary.

明新科技大學電子系
課程教學小組

俊木王 系主任 电子系

工學院院長呂明峰(甲)

Electronic Engineering (Continuing Education)

Year II (2020)						
Course title		1st semester		2nd semester		
		Cr.	hr.	Cr.	hr.	
C	©Classified General Education		2	2	2	2
	©Technical English(I)(II)		2	2	2	2
	©The Theory of History and Civilization		2	2		
	©Ethics for Engineering		1	1		
	©Law, Politics and Society				2	2
	※Electronics(I)(II)		3	3	3	3
	※Digital Logic		3	3		
	※Engineering Mathematics		3	3		
	※Electronic Practice		2	2		
	※Computer Programming Lab		1	2		
	※Computer Aided Layout Lab				1	2
	※Digital System Design				3	3
	※Visualized Program Design Lab				2	2
	※Digital Logic Lab				1	2
e..	※Circuit Simulation Lab				2	2
Summation			19	20	18	20
E	Introduction to IC Package		3	3		
	LINUX Lab				1	2
	Introduction to Nano-technology				3	3
	Introduction to IC Design				3	3
	Website Program Design		3	3		
	Basic Wheel Robot Practice		3	3		
	Introduction to Networks		3	3		
	Single-chip Micro-computer Practice				3	3
	Robot Assembly Control Practice				3	3
	Microprocessor Principles				3	3

Cr./hr.=Credit/Hour

Item	Cr.	hr.
◎General Education Courses	27	29
△ Basic Professional Courses	14	16
※Required Professional Courses	34	39
Elective Professional Courses	53	53
☆All-out Defense Education Military Training	0	2
Total	128	139

The department can change it as required.

工學院院長呂明峰(印)

MUST Curriculum Guide for Graduate Students for Academic Year 2018-2019,
Institute of, Department of Chemical and Material Engineering

Year I (2018)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Chemical and Materials Engineering Seminar (I)(II)	1	2	1	2
Summation		1	2	1	2
E	Advanced Engineering Thermodynamics*			3	3
	Advanced Chemical Reaction Kinetics*			3	3
	Advanced Transport Phenomena*	3	3		
	Advanced Physical Metallurgy*	3	3		
	Process Integration and Computer Aided Design	3	3		
	Special Topics in Particulate Technology	3	3		
	Spectroscopic Analysis	3	3		
	Special Topics in Functional Polymer	3	3		
	Thin Film Technology			3	3
	Nanotechnology			3	3
	Photolithography			3	3
	Supercritical Fluid Technology			3	3
	X Ray Diffraction			3	3
	Experimental Planning Method	3	3		
	Project Management			3	3
Summation		21	21	24	24
Total		22	23	25	26

Year II (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Thesis(I)(II)	3	3	3	3
Summation		3	3	3	3
E	Advanced Waste Water Treatment	3	3		
	Advanced Air Pollution Prevention and Control	3	3		
	Molecular biology	3	3		
	Enzyme Technology	3	3		
	Advanced Solid State Chemistry	3	3		
	Special Topics in Inorganic Chemistry	3	3		
	Advanced Analysis of Materials	3	3		
	Bioengineering System Analysis			3	3
	Biomedical Materials and Technology			3	3
	Special Topics in Combustion Engineering			3	3
	Intellectual Property			3	3
	Special Topics in Solar Cells			3	3
	Special Topics in Fuel Cells			3	3
Summation		21	21	18	18
Total		24	24	21	21

Item	Cr.	Hr.
※Compulsory Professional Courses	8	10
Elective Courses	27	27
Total	35	37

Remarks :

- Graduate students shall take 2-16 credits every semester for the 1st academic years and 2-16 credits every semester for the 2nd academic year.
- Minimum credits required for graduation: 35 credits with 8 compulsory credits
Elective credits: 27 credits with some pre-approved inter-institution elective credits.
- The inter-institution elective credits are transferable, but the professional elective course credits shall not be less than 15.
- At least one of the elective courses taken has to be "Advanced Transport Phenomena" or "Advanced Physical Metallurgy". At least one of the elective courses taken has to be "Advanced Thermodynamics" or "Advanced Reaction Kinetics"
- The listed elective courses are subject to change.

系課務委員:



系主任:

化材系 主任 陳邦旭

院長:

工學院 院長 呂明峰(甲)

MUST Curriculum Guide for Graduate Students for Academic Year 2019-2020,
Department of Civil Engineering and Environmental Informatics(Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Special Research and Discussion	1	2		
	※Research Methodology and Thesis Writing			2	2
Summation		1	2	2	2
E	Advanced Topics for Spatial Information	3	3		
	Advanced Topics in Water Retention	3	3		
	Advanced Topics for Architectural engineering system	3	3		
	International Construction Management	3	3		
	Environmental Management Special Topics	3	3		
	Carbon Reduction Special Topics	3	3		
	Green Energy & Low-carbon Industry Special Topics	3	3		
	Engineering Material Special Topics	3	3		
	Special Topics of Geotechnical Engineering	3	3		
	Construction Technic of Steel Structure	3	3		
	Rock Mechanics	3	3		
	Risk Analysis and Management			3	3
	Geographic Information System			3	3
	Construction Works Special Topics			3	3
	Disaster Prevention Special Topics			3	3
	Waste Applications Used in the Engineering			3	3
	Environmental Telemetry			3	3
	Resources Management			3	3
	Energy Management Special Topics			3	3
	Multivariate Analysis			3	3

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Thesis	3	3	3	3
Summation		3	3	3	3
E	Engineering Law and Arbitration	3	3		
	Environmental Policy and Specifications	3	3		
	Advanced Topics on Bridge Engineering	3	3		
	Project Management	3	3		
	Soil Improvement Special Topics	3	3		
	Independent Study	1	1	1	1

Item	Cr.	hr.
※Required Professional Courses	9	10
Elective Professional Courses	21	21
Total	30	31

C/E = Compulsory / Elective
 Cr./hr.=Credit/Hour

Remarks

- 1.Minimum credits required for graduation are 30 credits (9 required credits and at least 21 elective credits). (including the inter-departmental elective credits).
- 2.No fewer than 15 professional elective credits are required with the exclusion of credits for inter-disciplinary programs.
3. Core Course Thesis Writing is offered over 2 semesters. The final score will only be given after passing the oral thesis defense.
- 4.The elective courses are subject to change if necessary.

工學院 院長 呂明峰(印)

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土環系 系主任 吳宗



**MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2022,
Department of Civil Engineering and Environmental Informatics (Division of Continuing Education)**

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	☆All-out national defense education training(I)(II)	0	1	0	1
	◎Physical Education	1	2	1	2
	◎Chinese Reading and Expressions(I)(II)	2	2	2	2
	△Physics(I)(II)	2	2	2	2
	△Physics Laboratory(I)(II)	1	2	1	2
	◎English(I)(II)	2	2	2	2
	△Calculus(I)(II)	3	3	3	3
	※General Surveying	3	3		
	※Introduction to Civil Engineering	1	1		
	※Introduction to Environment and Resources			1	1
	※Material Lab			2	2
	※Computer Aided Drafting(I)			2	2
	Summation	15	18	16	19

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2
	◎Technical English(I)(II)	2	2	2	2
	◎The Theory of History and Civilization	2	2		
	◎Ethics for Engineers	1	1		
	※Civil Engineering Materials	2	2		
	※Introduction to Environmental Engineering	2	2		
	※Application of Computer Software	2	2		
	◎Law, Politics and Society			2	2
	△Chemistry			2	2
	※Engineering Mechanics			2	2
	※Environmental and Resources Management			2	2
	Summation	13	13	12	12

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2
	※Construction Management	2	2		
	※Concrete Mix Design	2	2		
	※Soil Mechanics	2	2		
	※Structural Analysis			2	2
	※Cost Estimating			2	2
	※Soil Lab			2	2
	※Ecologic Engineering			2	2
	※Civil Engineering Construction			2	2
	Summation	8	8	12	12

Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※Reinforced Concrete	2	2		
Summation		2	2		
E	Environmental Impact Assessment	3	3		
	Engineering Quality Management	3	3		
	Sloped Land	3	3		
	Steel Construction	3	3		
	Project Cost Estimation	3	3		
	Building Construction	3	3		
	Engineering Law	3	3		
	Construction Safety Measures	3	3		
	Geotechnical Engineering Practice	3	3		
	Groundwater Resource	3	3		
	Special Projects (I)	3	3		
	Low Impact Development			3	3
	Environmental Monitoring			3	3
	Water Resource Engineering			3	3
	Computer Programming and Practice			1	3
	Structural System			3	3
	Structural Evaluation and Assessment			3	3
	Form & Supporting Engineering			3	3
	Project Procurement & Contract Award			3	3
	Tunnel Engineering			3	3
	Greenhouse Gas Evaluation			3	3
	Special Projects (II)			3	3

Item	Cr.	hr.
◎General Education Courses	27	29
▲Basic Professional Courses (required by college)	14	16
※Required Professional Courses	37	37
Elective Professional Courses	50	50
☆All-out Defense Education Military Train	0	2
Total	128	134

C/E = Compulsory / Elective
Cr./hr.=Credit/Hour



Remarks:

- 1.Minimum credits required for graduation are 128 credits(78 required credits and at least50elective credits).
 - 2.No fewer than 38 professional elective credit are required with the exclusion of credits for ininter-disciplinary program
- Note: Inter-departmental elective credits are transferable.
- 3.The elective courses are subject to change if necessary.



工學院
院長呂明峰(印)

主任張崑宗

MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2022
Department of Computer Science and Information Engineering(Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Physical Education	1	2	1	2
	☆ All-out Defense Education Military Training(I)(II)	0	1	0	1
	◎English(I)(II)	2	2	2	2
	◎Chinese Reading and Expressions(I)(II)	2	2	2	2
	△Physics(I)(II)	2	2	2	2
	△Physics Laboratory(I)(II)	1	2	1	2
	△Calculus(I)(II)	3	3	3	3
	※Introduction to Computer Science	2	2		
	※Graphical Programming	2	3		
	※Practice of Basic Digital Circuits			2	2
	※Applications of Python Programmig			3	3
Summation		15	19	16	19
E					

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎Technical English(I)(II)	2	2	2	2
	◎ The Theory of History and Civilization	2	2		
	◎Law, Politics and Society			2	2
	◎Ethics for Engineers	1	1		
	※C Programming(I)(II)	3	3	3	3
	※Introduction to Database Systems	3	3		
	※Digital Logic Design	3	3		
	※Digital Logic Design Lab	1	2		
	※Practice of UNIX Operating System	2	2		
	※Software Engineering			2	2
	※Information Mathematics			3	3
	※Computer Networks			3	3
	※Data Structures			3	3
Summation		19	20	20	20
E					

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
Summation		2	2	2	2
E	Practice of Database Management System	3	3		
	Application of Office Software	3	3		
	Web Programming	3	3		
	Embedded System Programming	3	3		
	IoT Application Development			3	3
	Web Design Practice			3	3
	JAVA Programming			3	3
	Mobile Devices Programming			3	3

Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Special Topic Project(I)(II)	1	3	1	3
	※Computer Architectures	2	2		
	※Operating System			2	2
Summation		3	5	3	5
E	Introduction of Information Security	3	3		
	FPGA Design Practice	3	3		
	Cloud Computing	3	3		
	Information Protection and Laws	3	3		
	Introduction to Multimedia			3	3
	Artificial Intelligence			3	3
	Mobile Service Development			3	3
	Cloud Computing Application Practice			3	3

Item	Cr.	Hr.
◎General Education Courses	27	29
▲Basic Professional Courses (required by college)	12	14
※Required Professional Courses	41	47
Elective Professional Courses	48	48
☆All-out Defense Education Military Training	0	2
Total	128	140

C/E = Compulsory / Elective
Cr./Hr.=Credit/Hour

Remarks:

1. Minimum credits required for graduation are 128 credits(80 required credits and at least 48 elective credits).
2. No fewer than 36 professional elective credit are required with the exclusion of credits for inter-disciplinary programs. Note: Inter-departmental elective credits are transferable.
3. The elective courses are subject to change if necessary.
4. All courses in the Software Engineering Program, Information & Communication Security Program, and System on Chip Program can be approved as professional elective credits within department.

資工系 李紀萍
副教授

資工系 陳美支
主任

工學院 呂明峰(甲)
院長

MUST Curriculum Guide for Graduate Students for Academic Year 2019-2020,
Institute of Industrial Engineering and Management (Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Research Method and Seminar Discussion	3	3		
	Summation	3	3	0	0

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Thesis	3	3	3	3
	Summation	3	3	3	3

1st semester			
	Course title	Cr.	Hr.
E	Global Logistics Management	3	3
	Problem Analysis and Decision Making	3	3
	Innovative Thinking Processes and Theories	3	3
	Advanced Production Planning and Control	3	3
	Business Model and Business Strategy	3	3
	Introduction to Algorithms	3	3
	Experiment Design and Analysis	3	3
	Operation System Planning on Distribution Center	3	3
	Advance of Database Design and Application	3	3
	Applied Regression Analysis	3	3
	Overseas Management Practices	3	3
	Organizational Greenhouse Gases Inventory	3	3
	Applications of Ergonomics Technology	3	3
	Introduction to Process Optimization	3	3
	Adventure Management	3	3
	Advance Business Process Management	3	3
	Six Sigma Quality of Engineering Management	3	3

2nd semester			
	Course title	Cr.	Hr.
E	Simulation Analysis & Applications	3	3
	Advanced Program Management	3	3
	Theory and Practice of Enterprise Resource Planning	3	3
	Green Engineering and Management	3	3
	New Product Design and Management	3	3
	Management for Innovation Research & Development	3	3
	Theory of Constraints and Practices	3	3
	Undertaking and Commercial Business Planning	3	3
	Supply Chain Analysis and Design	3	3
	Advanced Computer Aided Design and Application	3	3
	Organization Theory and Design	3	3
	Multivariate Analysis	3	3
	Performance Management	3	3
	System Safety and Risk Management	3	3
	Factory Diagnosis and Improvement	3	3
	System Dynamics	3	3
	Analytical Hierarchy Process and Applications	3	3
	Reliability Engineering in Technology Theory and Practice	3	3
	Greenhouse Gases Management and Practice	3	3
	Strategies for Sustainable Development	3	3

Course type	Cr.	Hr.
※Compulsory Courses	9	9
Elective Courses	24	24
Total	33	33

C/E = Compulsory/Elective

Cr./Hr. = Credit/Hour



工管系楊昌哲
代理主任

管理學院杜鳳棋
院長

Remarks: This Curriculum was approved by the Committee of Department Affairs on February 26, 2019.

1. The upper limit of credits for students in each semester is 15 credits (excluding six credits of Thesis).
2. Minimum credits required for graduation: 33 credits including 9 compulsory credits, and 24 elective credits.
3. The inter-institution elective credits are transferable with the approval of academic advisor, but IEM elective course credits shall not be less than 12.
4. Graduate students shall follow the master degree studying rule of Industrial Engineering and Management Department.
5. Students who are not taking Compulsory Profession Courses must issue the application form during the first week of each semester.
6. Students shall take total 6 credits of "Thesis" course. (all of the 6 credits will be counted together after passing the defense qualification of thesis)
7. Independent study is for students in extended study period, and not counted towards their credits for graduation.
8. The elective courses are subject to change if necessary.

MUST Curriculum Guide for Undergraduate Students for Academic Years 2019-2022,
Department of Industrial Engineering and Management(Continuing Education)

Year I (2019)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
☆All-out national defense education training(I)(II)	0	1	0	1	
◎Physical Education	1	2	1	2	
◎Chinese Reading and Expressions (I)(II)	2	2	2	2	
◎English (I)(II)	2	2	2	2	
▲Applied Basic Mathematics(I)(II)	3	3	3	3	
▲Management	3	3			
▲Economics	3	3			
※Engineering Graphics	2	3			
▲Accounting			3	3	
※Computer Programming			2	2	
※Manufacturing Engineering			3	3	
Summation	16	19	16	18	
E					

Year II (2020)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Applied English(I)(II)	2	2	2	2	
◎Classified General Education	2	2	2	2	
▲Statistics	3	3			
※Industrial Automation	3	3			
※Work Study	3	4			
◎Law, Politics and Society	2	2			
◎The Theory of History and Civilization			2	2	
※Human Factors Engineering			3	3	
※Production Management			3	3	
Summation	15	16	12	12	
E					
Information Literacy	3	3			
Psychology	3	3			
Application for Internet	3	3			
Physical Chemistry Applications	2	2			
Engineering Report Writing			3	3	
Commercial Automation			3	3	
Statistical Methods and Applications			3	3	
Marketing Management			3	3	
Second Foreign Language			3	3	

C/E = Compulsory/Elective
Cr./Hr. = Credit/Hour

Course type	Cr.	Hr.
◎General Compulsory Courses	27	29
▲ Basic Compulsory Profession Courses	18	18
※Compulsory Profession Courses	45	47
Elective Courses	38	38
☆All-out national defense education training	0	2
Total	128	134

Year III (2021)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Classified General Education	2	2	2	2	
※Operations Research	3	3			
※Materials Management	3	3			
※Quality Management	3	3			
※Cost Accounting	3	3			
※Systems Analysis and Design			3	3	
◎Professional Ethics			1	1	
※Engineering Economy			3	3	
Summation	14	14	9	9	
E					
Industrial Japanese	3	3			
Spreadsheet Applications	3	3			
Product Design & Practice	3	3			
Market Survey	3	3			
Introduction to Creative Thinking	3	3			
Human Resource Management	3	3			
Technical English	3	3			
Application of Statistical Software	3	3			
Introduction of Industrial Safety			3	3	
Applied Ergonomics			3	3	
Semiconductor Manufacturing & Management			3	3	
Application Quality Management Practices			3	3	
GHG Management			3	3	
Practice and Application of Industrial Engineering and Management			3	3	
Management Information System			3	3	
License Counseling Course for POM			3	3	
Project Management			3	3	

Year IV (2022)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
※Independent Study in Practical Topics (I)(II)	1	1	1	1	
※Facility Planning	3	3			
※Quality Engineering			3	3	
Summation	4	4	4	4	
E					
Fund Management	3	3			
Machine Vision and Application	3	3			
Electrical Factory Engineering Practice	3	3			
Production Scheduling	3	3			
Financial Management	3	3			
Enterprise for Sustainable Development	3	3			
Constraints Management	3	3			
Introduction to Entrepreneurship	3	3			
Electronic Commerce	3	3			
Enterprise Resource Planning			3	3	
Personal Wealth Management			3	3	
Managing New Product and Process Development			3	3	
Computer Aided Design and Manufacturing			3	3	
Automated Manufacturing System			3	3	
Logistics Management			3	3	
Supply Chain Management			3	3	
Business Process Management			3	3	

Remarks: This Curriculum was approved by the Committee of Department Affairs on February 26, 2019.

1. Minimum credits required for graduation: 128 credits with 90 compulsory credits. Elective credits: 38 credits with some pre-approved inter-institution elective credits.
2. No fewer than 26 professional elective credit are required with the exclusion of credits for inter-disciplinary programs.
3. Transferred students shall follow the curriculum offsetting and remitting rule of MUST.
4. The elective courses are subject to change if necessary.



工管系楊昌哲
代理主任

管理學院 杜鳳棋(印)

**MUST Curriculum Guide for Undergraduate Students of Academic Year 2019-2022,
Department of Marketing and Logistics Management (Division of Continuing Education)**

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	☆Physical Education	1	2	1	2
	☆All-out Defense Education Military Training(I)(II)	0	1	0	1
	◎Chinese Reading and Expressions (I)(II)	2	2	2	2
	◎English(I)(II)	2	2	2	2
	△Applied Basic Mathematics(I)(II)	3	3	3	3
	▲Economics	3	3		
	▲Management	3	3		
	※Marketing Management	3	3		
	▲Accounting			3	3
	※Applied Economics			2	2
	※Introduction to Distribution Management			2	2
Summation		17	19	15	17
E					

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎ Applied English (I)(II)	2	2	2	2
	※ Japanese (I)(II)	2	2	2	2
	◎ Law, Politics and Society	2	2		
	▲Statistics	3	3		
	※ Consumer Behavior	2	2		
	◎ The Theory of History and Civilization			2	2
	※ Applied Statistics			2	2
	※ Logistics Management			2	2
Summation		13	13	12	12
E	Multimedia Application in Marketing	2	2		
	Electronic Commerce	2	2		
	Merchandise Management	2	2		
	The Practice of International Trade	2	2		
	Introduction to MICE Industry	2	2		
	Commercial Package Software			3	3
	Store Display and Layout			2	2
	PR Project Management			2	2
	Web planning and application			2	2
	Service Marketing and Management			2	2

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	※ English Conversation (I)(II)	2	2	2	2
	※ Data Analysis and Software Application	3	3		
	※ Internet Marketing and Practice	2	2		
	◎ Professional Ethics			1	1
	※ Supply Chain Management Case Study			2	2
	※ Digital Marketing and Practice			2	2
Summation		9	9	9	9
E	Advertising Management and Practices	2	2		
	Pricing Strategy and Management	2	2		
	Business Planning Principle and Application	2	2		
	Store Planning and Design	2	2		
	Store Operations Management	2	2		
	Financial Management	3	3		
	Introduction to Industry Trends	3	3		
	Green Marketing	3	3		
	Business Japanese	2	2		
	Interpersonal Communication and Organizational Leadership	2	2		
	Brand Management			2	2
	International MICE Practices			2	2
	Purchasing and Inventory Management			2	2
	Retail Management			2	2
	Automatic Customs Clearance			3	3
	International Foreign Exchange			2	2
	Chain store management			2	2
	Advanced Business Japanese			2	2
	Product Development and Management			2	2
	Event Marketing			2	2




Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Marketing Research	3	3		
	※ Special Topic Discussion			2	2
Summation		3	3	2	2
E	Sales Practices	2	2		
	Enterprise Resource Planning	2	2		
	Marketing and Distribution Information Systems	2	2		
	Creative Marketing	2	2		
	Logistics Center Management	2	2		
	Commercial Law	2	2		
	Cross-strait Trade and Industry	2	2		
	Marketing Case Study			2	2
	Career Planning			2	2
	Customer Relationship Management			2	2
	International Logistics Management			2	2
	Japanese-Style Management			2	2

Item	Cr.	Hr.
◎ General Education Courses	27	29
▲ Basic Professional Courses (required by college)	18	18
※ Required Professional Courses	35	35
Elective Courses	48	48
☆ All-out Defense Education Military Training	0	2
Total	128	132

C / E = Compulsory / Elective
Cr. / Hr. = Credit / Hour

Remarks:

1. Minimum credits required for graduation are 128 credits (80 compulsory credits and at least 48 elective credits).
2. No fewer than 36 professional elective credits are required with the exclusion of credits for inter-disciplinary programs. Note: Inter-departmental elective credits are transferable.
3. The Elective courses listed above are for reference and subject to change as necessary.

課程規劃委員	系主任
	 

MUST Curriculum Guide for Graduate Students for Academic Year 2019-2020, Institute of Management (Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Research Method and Seminar Discussion	3	3		
Summation		3	3	0	0

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Thesis(I)(II)	3	3	3	3
Summation		3	3	3	3

1st semester			
Course title		Cr.	Hr.
E	◇Topics in Human Resource Management	3	3
	◇Topics in Financial Management	3	3
	◇Topics in Marketing Management	3	3
	◇Multivariate Analysis	3	3
	◇Topics in Organization Theory and Management	3	3
	Topics in Production and Operations Management	3	3
	Topics in Industry Research	3	3
	Topics in Global Logistics Management	3	3
	Branding and Communications	3	3
	Overseas Management Practices and observation	3	3
	Topics in Security Analysis and Investment Management	3	3
	Data Analysis and Visualization	3	3
	Topics in Managerial Economics	3	3
	Systematic Innovation and Invention	3	3
	Topics in Consumer Behavior	3	3
	Topics in Corporate Finance	3	3
	Big Data Analysis	3	3
	Summation	51	51

2nd semester			
Course title		Cr.	Hr.
E	Topics in Strategic Management	3	3
	Topics in Customer Relationship Management	3	3
	Topics in Project Management	3	3
	Topics in Organizational Behavior	3	3
	Topics in Organizational Leadership	3	3
	Problem Analysis and Decision Making	3	3
	Topics in Global Economics	3	3
	Topics in International finance	3	3
	Topics in Financial Risk Management	3	3
	Management Case Study	3	3
	Innovation Opportunity Identification	3	3
	Topics in Financial Derivatives	3	3
	Topics on Digital Marketing	3	3
	Topics on Service Marketing	3	3
	Marketing Research	3	3
	Summation	45	45

Item	Cr.	Hr.
※Compulsory Profession Courses	9	9
Elective Courses	21	21
Total	30	30

C/E = Compulsory / Elective
Cr./Hr.=Credit/Hour

Remarks

1. Minimum credits required for graduation: 30 credits with 9 compulsory credits , elective credits: 21 credits
2. The upper limit of credits which students can take for each semester is 18 credits.(Exclude six credits of Thesis)
3. The inter-institution elective credits are transferable with the approval of academic advisor, but the elective course credits Institute of Management shall not be less than 12.
4. Independent study is for students in extended study period , and not counted towards their credits for graduation.
5. ◇: The Institute strongly recommends students to study the following 5 core course: Topics in Human Resource Management, Topics in Financial Management, Topics in Marketing Management, Multivariate Analysis, Topics in Organization Theory and Management.
6. Graduate students shall follow the master degree studying rule of Institute of Management.
7. Student who satisfied the graduate criteria at first-year second semester or second-year first semester is allowed to take the Thesis course. The credits are disregard the rule of 18 credits per semester maximum.
8. Students shall take total 6 credits of "Thesis" course. (all of the 6 credits will be counted together after passing the defense qualification of thesis)
9. Please note that the current course listings are subject to change based upon the actual context.

管理研究所
課程規劃委員會



管研所
所長 林於杏

管理學院
院長 杜鳳棋

MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2022, Department of Business Administration (Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Physical Education	1	2	1	2
	☆All-out national defense education training(I)(II)	0	1	0	1
	▲Applied Basic Mathematics(I)(II)	3	3	3	3
	◎English(I)(II)	2	2	2	2
	◎Chinese Reading and Expressions (I) (II)	2	2	2	2
	▲Management	3	3		
	▲Economics	3	3		
	※Economic Analysis			3	3
	▲Accounting			3	3
	Summation	14	16	14	16
E	Business English Conversation(I)(II)	2	2	2	2
	Basic Japanese(I)(II)	2	2	2	2
	Introduction of Business	2	2		
	Chain Store Service Practice			2	2

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	※Human Resource Management	3	3		
	※Marketing Management	3	3		
	※Production and Operations Management	3	3		
	◎Professional Ethics			1	1
	※Business Research Method			2	2
	※Business English			2	2
	※Organizational Behavior			2	2
	※Financial Management			3	3
	Summation	11	11	12	12
E	New TOEIC Testing(I)(II)	2	2	2	2
	Practice of Taxes	2	2		
	E-Commerce	2	2		
		3	3		
	Organization Theory and Management	3	3		
	Practicum of micro-entrepreneurs	3	3		
	Business Data Analysis			2	2
	Operations Research			3	3
	Retail Management			3	3
	Performance Management			3	3
	Internet Marketing			3	3
	Invention and Innovation			3	3

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎Applied English(I)(II)	2	2	2	2
	◎Law, Politics and Society	2	2		
	◎The Theory of History and Civilization			2	2
	※Commercial Package Software	2	2		
	▲Statistics	3	3		
	※Applied Accounting	3	3		
	※Introduction to the Application of Technology			2	2
	※Psychology			2	2
	※Applied Statistics			3	3
	Summation	14	14	13	13
E	Intermediate Japanese(I)(II)	2	2	2	2
	Market Survey	2	2		
	Language Communication Skills	2	2		
	Finance and Economics News	2	2		
	Ethics for business			2	2
	Business Presentation Skills			2	2
	Consumer Behavior			3	3

Item	Cr.	Hr.
◎General Compulsory Courses	27	29
▲Basic Compulsory Profession Courses	18	18
※Compulsory Profession Courses	37	37
Elective Courses	46	46
☆All-out national defense education training	0	2
Total	128	132

C/E = Compulsory / Elective

Cr./Hr=Credit/Hour

Remarks:

- 1.Minimum credits required for graduation are 128 credits (82 required credits and at least 46 elective credits).
- 2.No fewer than 32 professional elective credit are required with the exclusion of credits for inter-disciplinary programs.
Note: Inter-departmental elective credits are transferable.
- 3.The elective courses are subject to change if necessary.

企管系黃英哲
主任

管理學院杜鳳棋
院長

MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2020, Department of Business Administration (Division of Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎Business Ethics	2	2		
	※Management	2	2		
	※Practice of Financial Management			2	2
	※Practice of Marketing Management			2	2
Summation		6	6	6	6
E	Entrepreneurial planning practice	2	2		
	Investment Practice	2	2		
	Market Survey	2	2		
	New products development	2	2		
	Internet Marketing	2	2		
	Store Management Practice	2	2		
	Business Technology Practice(1)	2	2		
	Advertising Design			2	2
	Patents and intellectual property rights			2	2
	Design Thinking			2	2
	Practice of Taxes			2	2
	Business English			2	2
	Business Technology Practice(2)			2	2
	Social Enterprise			2	2
	Service Quality Management			2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎English Practice	2	2		
	※Practice of Production and Operation Management	2	2		
	※Practice of Human Resource Management	2	2		
	※Strategic Management			2	2
Summation		8	8	4	4
E	Workplace Japanese(1)(2)	2	2	2	2
	Financial Statement Analysis	2	2		
	Labor regulations	2	2		
	Retail Management	2	2		
	Logistics Management	2	2		
	Case Study in Industry Analysis	2	2		
	Business Technology Practice(3)	2	2		
	Consumer Behavior	2	2		
	multi-media design	2	2		
	Industrial Development Trend	2	2		
	Training Practice in Industry			2	2
	Franchise Management Practice			2	2
	Business Operation Simulation			2	2
	Integrated marketing communications			2	2
	Practice of Micro-Entrepreneurs			2	2
	Quality management			2	2
	Business Technology Practice(4)			2	2

Item	Cr.	Hr.
◎General Compulsory Courses	12	12
※Compulsory Profession Courses	12	12
Elective Courses	48	48
Total	72	72

C/E = Compulsory / Elective

Cr./Hr=Credit/Hour

Remarks:

1. Minimum credits required for graduation are 72 credits(24 required credits and at least 48 elective credits).
2. No fewer than 6 professional elective credit are required with the exclusion of credits for ininter-disciplinary programs.
Note: Inter-departmental elective credits are transferable.
3. The elective courses are subject to change if necessary.

企管系課務規劃委員會

企管系 黃英哲 主任

管理學院 杜鳳棋 院長

**MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2020,
Department of Business Administration (Division of Continuing Education)**

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎English(I)(II)	2	2	2	2
	◎Chinese Reading and Expressions(I)(II)	2	2	2	2
	☆All-out Defense Education Military Training	0	1		
	◎Physical Education	1	2		
	△Accounting(I)(II)	2	2	2	2
	△Economics(I)(II)	2	2	2	2
	△Statistics(I)(II)	2	2	2	2
	△Introduction of Business	2	2		
	△Introduction of Management			2	2
Summation		13	15	12	12
E	Business English Conversation(I)(II)	2	2	2	2
	Commercial Package Software	2	2		
	Wealth Management	2	2		
	Language Communication Skills	2	2		
	Career Planning			2	2
	Labor Relations			2	2
	Small and Medium Enterprises Management			2	2
	Career Ethics			2	2
	Business Presentation Skills			2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Applied English(I)(II)	2	2	2	2
	◎Classified General Education	2	2	2	2
	※Marketing Management(I)(II)	2	2	2	2
	※Financial Management(I)(II)	2	2	2	2
	※Production and Operations Management(I)(II)	2	2	2	2
	※Human Resource Management(I)(II)	2	2	2	2
Summation		12	12	12	12
E	Basic Japanese(I)(II)	2	2	2	2
	E-Commerce	2	2		
	Introduction to Finance and Economics News	2	2		
	Practice of Chain Store Management	2	2		
	Business Law	2	2		
	Business Operation Simulation	2	2	2	2
	Multimedia Practice			2	2
	Innovative Thinking			2	2
	Retailing Management			2	2

Item	Cr.	Hr.
◎General Compulsory Courses	17	18
△Basic Compulsory Profession Courses	16	16
※Compulsory Profession Courses	16	16
Elective Courses	31	31
☆All-out Defense Education Military Training	0	1
Summation	80	82

Remarks:

1. Minimum credits required for graduation are 80 credits (49 required credits and at least 31 elective credits).
2. No fewer than 6 professional elective credit are required with the exclusion of credits for inter-disciplinary programs.
Note: Inter-departmental elective credits are transferable.
3. The elective courses are subject to change if necessary.

企管系主任黃英哲

管理學院院長杜鳳棋(印)

C/E = Compulsory / Elective
Cr./Hr=Credit/Hour

**MUST Course Selection Guideline for Undergraduate Students of Academic Year 2019-2022, Department of Finance
(Continuing Education)**

Year I (2019)					Year II (2020)					Year III (2021)							
Course title		1st semester		2nd semester	Course title		1st semester		2nd semester	Course title		1st semester		2nd semester			
		Cr.	hr.				Cr.	hr.				Cr.	hr.		Cr.	hr.	
C	◎Physical Education	1	2	1	2	◎Classified General Education	2	2	2	2	◎Classified General Education	2	2	2	2		
	☆All-out Defense Education Military Training (I)(II)	0	1	0	1	◎Applied English (I)(II)	2	2	2	2	◎Professional Ethics			1	1		
	◎English (I)(II)	2	2	2	2	◎Law, Politics and Society	2	2			※Financial Statement Analysis	3	3				
	◎Chinese Reading and Expressions (I)(II)	2	2	2	2	◎The Theory of History and Civilization			2	2	※Futures and Options	3	3				
	▲Applied Basic Mathematics (I)(II)	3	3	3	3	C ▲Statistics	3	3			※International Financial Management			3	3		
	▲Economics	3	3			※Financial Management (I)	3	3									
	▲Management	3	3			※Financial Markets and Institutions	2	2									
	▲Accounting			3	3	※Applied Statistics			2	2							
	※Applied Economics			2	2	※Financial Management (II)			3	3							
						※Investment			3	3							
Summation		14	16	13	15	Summation		14	14	14	14	Summation		8	8	6	6
E	Civil Law			2	2	E	Economic Analysis	2	2			E	Securities Analysis Practice	3	3		
	Introduction to Financial Instruments			2	2		Topics in Financial News	2	2				Insurance Practice	2	2		
					Commercial Law		2	2			Taxes Practice		2	2			
					Accounting Information System		2	2			Investment Software Operation		3	3			
					Intermediate Accounting (I)				2	2	Money and Banking		3	3			
					Financial Marketing				2	2	Financial License Counselling (I)		2	2			
					Introduction to Insurance Theory				2	2	Intermediate Accounting (II)		2	2			
					Macroeconomics				2	2	Fund Investment		2	2			
											Foreign Exchange Market Practice				2	2	
											Bond Investment Practice				3	3	
Summation		3	3	3	3	Summation		53	53	0	2	Summation		2	2	2	2
C	※Special Practical Projects (I)	3	3			C	◎General Compulsory Courses	27	29			C	College Basic Compulsory Professional Courses	18	18		
	※Special Practical Projects (II)			3	3		※Compulsory Profession Courses	30	30				Elective Courses	53	53		
					☆All-out Defense Education Military Tr		0	2			Total		128	132			
Summation		3	3	3	3	Summation		3	3	3	3	Summation		3	3	3	3
E	Corporate Governance	3	3			E	Portfolio Investment Operation Practice	3	3			E	Financial Derivatives	3	3		
	Behavioral Finance	3	3				Applied English for Economics and Finance	2	2				Managerial Accounting	3	3		
	Practice of Financial Markets			3	3		Digital Finance	3	3				Risk Management	3	3		
	Financial Innovation			3	3		English for Business		2	2			Financial Planning	3	3		
	Risk Management			3	3		Financial Case Study		3	3							

Remarks:

- Minimum credits required for graduation: 128 credits include 75 compulsory credits, and at least 53 elective credits (including the interdepartmental elective credits).
- The inter-institution elective credits are transferable, but the professional elective course credits shall not be less than 35.
- Elective courses in the above list are for reference, and would be adjusted according to the real status.

財務金融系課程規劃委員會

C/E = Compulsory / Elective

Cr./hr.=Credit/Hour

Remarks:

- Minimum credits required for graduation: 128 credits include 75 compulsory credits, and at least 53 elective credits (including the interdepartmental elective credits).
- The inter-institution elective credits are transferable, but the professional elective course credits shall not be less than 35.
- Elective courses in the above list are for reference, and would be adjusted according to the real status.

財務金融系課程規劃委員會

財務陳禮潭

財金系林淑瑛

管理學院杜鳳棋(印)

MUST Curriculum Guide for Undergraduate Students of Academic Year 2019-2022, Department of Hotel Management and Culinary Creativity (Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	☆ All-out Defense Education Military Training(I) (II)	0	1	0	1
	◎ Physical Education	1	2	1	2
	◎ Chinese Reading and Expressions (I) (II)	2	2	2	2
	◎ English (I) (II)	2	2	2	2
	※ Introduction to Tourism	2	2		
	※ Housekeeping Management	2	2		
	※ Practice of Housekeeping Operation	2	2		
	▲ Health Promotion	2	2		
	▲ Computer Application			2	2
	※ Front Office Management			2	2
	※ Practice of Front Office Operation			2	2
	Summation	13	15	11	13
E	Food & Beverage Services	2	2		
	Stress Management	2	2		
	Design & Practice of Culinary Creativity(I) Baking			4	4

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎ Applied English (I) (II)	2	2	2	2
	◎ Classified General Education	2	2	2	2
	◎ Law, Politics and Society	2	2		
	※ Japanese (I) (II)	2	2	2	2
	◎ The Theory of History and Civilization			2	2
	▲ Service Management			2	2
	※ Food & Beverage Operation and Management			2	2
	Summation	8	8	12	12
E	Beverage Management & Practice	2	2		
	Reception of Int'l Guests	2	2		
	Wedding Planning	2	2		
	Statistics	2	2		
	Hospitality Laws	2	2		
	Banquet Management & Operation			2	2
	Etiquette Management			2	2
	Hospitality Aesthetics			2	2

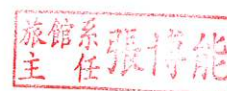
Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎ Classified General Education	2	2	2	2
	※ Hospitality Japanese (I) (II)	2	2	2	2
	※ Hospitality English (I) (II)	2	2	2	2
	※ Hospitality Human Resources Management	2	2		
	▲ Applied Psychology	2	2		
	◎ Ethics for Professionals			1	1
	▲ Interpersonal Communication			2	2
	Summation	10	10	9	9
E	Hotel Information System	2	2		
	Club Management	2	2		
	Butler Services	2	2		
	Hospitality E-Commerce	2	2		
	World Food & Beverage Culture	2	2		
	Healthy foodservice	2	2		
	Hospitality Purchasing			2	2
	Management of Hospitality Service Quality			2	2
	Design & Practice of Culinary Creativity(II) Chinese Cuisine			4	4
	Hospitality Accounting			2	2

Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※ Hospitality English (III)	2	2		
	※ Hospitality Japanese (III)	2	2		
	※ Hospitality Financial Management			2	2
	※ Hospitality Marketing			2	2
	※ Service Skill Certificate			1	1
Summation		4	4	5	5
E	Design & Practice of Culinary Creativity(II) Western-Style Course	4	4		
	Hospitality Cost Control & Analysis	2	2		
	Planning for Hotel Recreational Activities	2	2		
	Management of the B & I	2	2		
	Chain Hotel Management	2	2		
	Hospitality Public Relations and Crisis Management	2	2		
	Appreciation of Wine			2	2
	Hospitality Entrepreneurial & Development			2	2
	Design & Practice of Culinary Creativity(IV) Exotic Cuisine			2	2
	Green Hospitality			2	2
	Operation of Hotel Sales			2	2

Item	Cr.	Hr.
◎ General Compulsory Courses	27	29
▲ Basic Compulsory Profession Courses	10	10
※ Compulsory Profession Courses	35	35
Elective Courses	56	56
☆ All-out Defense Education Military Training	0	2
Total	128	132

C/E = Compulsory / Elective

Cr./Hr.=Credit/Hour



Remarks:

1. Minimum credits required for graduation are: 128 credits
2. 72 compulsory credits and 56 elective credits(including pre-approved inter-institution elective credits).
3. The inter-departmental elective credits are transferable, but the professional elective course credits shall not be fewer than 44.
4. Elective courses are subject to change if necessary.
5. Service Skill Certificate is compulsory and subject to requirements on acquirement of a service skill / language certificate. Specific requirements are available upon request.

MUST Curriculum Guide for Undergraduate Students of Academic Years 2019-2022,
Department of Early Childhood Education and Care (Continuing Education)

Year I (2019)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
◎Physical Education	1	2	1	2	
☆All-out Defense Education Military Training (IXII)	0	1	0	1	
◎Chinese Reading and Expressions(I)(II)	2	2	2	2	
English (I)(II)	2	2	2	2	
▲ Computer Application	2	2			
☆Introduction to Early Childhood Care and Education	2	2			
※Young Child Development I	2	2			
▲Health Promotion			2	2	
▲Applied Psychology			2	2	
※Young Child Development II			2	2	
※Child and Family Welfare			2	2	
Summation	11	13	13	15	
Physical Education of Young Children	2	2			
Visual Arts in Early Childhood Education	2	2			
Appreciation and Application of Literature for Young Children	2	2			
Network Resources Application			2	2	
Visual Arts Teaching for Young Children			2	2	
Theory & Practices of Play in Early Childhood Education			2	2	

Year II (2020)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
◎Classified General Education	2	2	2	2	
◎Law, Politics and Society	2	2			
◎Applied English (I)(II)	2	2	2	2	
☆The Theory of History and Civilization			2	2	
▲Interpersonal Communication	2	2			
※Preschool Curriculum Design	3	3			
※Observation of Young Children	2	2			
※Preschool Teaching Materials and Methods I			2	2	
※Preschool Classroom Management			2	2	
※Child Health and Safety			2	2	
※Preschool Teaching Materials and Methods II			2	2	
Summation	13	13	14	14	
Music in Early Childhood Education	2	2			
Multimedia Application	2	2			
Meals and Nutrition for Young Children	2	2			
Principle and Practice of Guidance	2	2			
Integrated English Activity in Early Years	2	2			
Young Children & Media	2	2			
Learning Environment Design for Infants and Young Children			2	2	
Models of Early Childhood Education			2	2	
Music and Movements for Young Children			2	2	
Montessori Education for Infants			2	2	

Year III (2021)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
◎Classified General Education	2	2	2	2	
※Practicum in Early Childhood Care and Education I II	2	2	2	2	
※Nursing Care of Infants and Children during Illness	2	2			
※Educational Assessment of Young Children's Learning	2	2			
◎Professional Ethics of Educare Givers			2	2	
※Educational Research Methods			2	2	
※Special Education in Early Childhood			3	3	
※Project Practices(I)			1	1	
Summation	8	8	12	12	
Child Guidance	2	2			
After-School Programs: Theory and Practice	2	2			
Drama Teaching for Children	2	2			
Musical Instrument	1	2			
Literacy Development in Early Childhood	2	2			
Early Childhood Education and care services in International context	2	2			
Administration and Management of Childhood Education Program			2	2	
Recreation Activities Planning for Children			2	2	
Literacy Development in the Early Years			2	2	
Career Planning			2	2	
Babysitting Practice			2	2	
Infant and Toddler Programs: Theory and Practice			2	2	
Music and Art Activities for Infants and Toddlers			2	2	
Global Trends in Early Childhood Education and Care			2	2	

Year IV (2022)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
※Project Practices(II)	1	1			
※The Preschool, Family and Community	2	2			
▲Service Management			2	2	
Summation	3	3	2	2	
Instruction Material Design and Application	2	2			
Family Education	2	2			
☆Interactive teaching materials and exhibition design	2	2			
Family Crisis and Stress Management	2	2			
Activity Design for Infants and Young Toddlers	2	2			
Early Intervention	2	2			
Baby Massage & Yoga	2	2			
Creative Teaching Methods	2	2			
Therapeutic Recreation for Young Children			2	2	
Life Education for Young Children			2	2	
Marriage and Family Relations			2	2	
Production of Broadcasting and Television Programs for Young Children			2	2	
Orff Approach			2	2	
Sensory Integration			2	2	

Item	Cr.	hr.
◎General Compulsory Courses	28	30
▲Basic Professional Courses (required by college)	10	10
※Required Professional Courses	38	38
Elective Courses	52	52
☆All-out Defense Education Military Training	0	2
Total	128	132

C/E = Compulsory / Elective

Cr./hr.=Credit/Hour

Remarks:

1. Minimum credits required for graduation: 128 credits with 76 compulsory credits Elective credits: 52 credits with some pre-approved inter-institution elective credits. Students who plan to be certified preschool teachers should apply for the enrollment examination held by the Center for Teacher Education and complete an extra 20 required credit hours.
2. The intra-institutional elective credits are permitted, but the professional elective course credits must not be less than 40.
3. "Practicum in Early Childhood Care and Education (I)" is prerequisite to "Practicum in Early Childhood Care and Education (II)". "Young Child Development (I)" is prerequisite to "Young Child Development (II)". "Project Practices(I)" is a prerequisite for "Project Practices(II)".
4. Two of the three subjects("Preschool Curriculum Design","Preschool Teaching Materials and Methods I" and "Preschool Teaching Materials and Methods II") are a prerequisite for "Practicum in Early Childhood Care and Education".
5. Elective courses are offered based on availability each semester.



幼保系課程
規劃委員會
1080522

幼兒保育系主任 方蕙玲

服務產業學院 廖美瑩 院長

108學年度 幼兒保育系 二技全學程開課時序表

Year I (2018)						Year II (2019)					
Course title		1st		2nd		Course title		1st		2nd	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2	C	◎Classified General Education	2	2	2	2
	◎English Language Practice			2	2		※Practicum in Early Childhood Care and Education			4	4
	※Introduction to Early Childhood Care and Education	2	2				※Special Education in Early Childhood	3	3		
	※Observation of Young Children			2	2		※Preschool Teaching Materials and Methods I	2	2		
	※Young Child Development	3	3				※Preschool Teaching Materials and Methods II	2	2		
	▲Computer Application	3	3				※Educational Assessment of Young Children's Learning	2	2		
	※Preschool Classroom Management	2	2				◎Professional Ethics of Educare Givers			2	2
	※Preschool Curriculum Design			3	3		※The Preschool, Family and Community			2	2
	※Child Health and Safety			3	3						
	※Game of Early Childhood Education			2	2						
Summation		12	12	14	14	Summation		11	11	10	10
E	Young Children's Classical Music Appreciation and Application	2	2			E	Design and Application of Board Game for Young Children	2	2		
	Aesthetic Education	2	2				Teaching with Picture Books	2	2		
	※Interpersonal Relationships and Communication	2	2				Creation and Application of Children's	2	2		
	Principle and Practice of Guidance	2	2				Early Intervention	2	2		
	Teaching English as a Second Language	2	2				Creative Teaching Methods	2	2		
	Child Guidance	2	2				Marriage and Family Relations	2	2		
	Infant and Toddler Programs: Theory and Practice	2	2				Practice of Baby Massage	2	2		
	Learning Environment Design for Infants and Young Children			2	2		STEM in Early Childhood Education			2	2
	Instruction Material Design and Application			2	2		Orff Approach			2	2
	Meals and Nutrition for Infants and Young Children			2	2		Family Education			2	2
	Digital audio and video Post-Production			2	2		Production of Broadcasting and Television Program for Infants and Young Children			2	2
	Research on Children's Action			2	2		Design and Production of Assistive Device for Children with Special			2	2
	Babysitting Practice			2	2		After-School Programs: Theory and Practice			2	2
	Creative of handiwork			2	2		Sensory Integration			2	2
	Montessori Method			2	2		Multicultural Education for Young Children			2	2
	Development and Application of Products for			2	2		Administration and Management of Childhood Education Program			2	2
Summation		14	14	18	18	Summation		14	14	18	18
Total		26	26	32	32	Total		25	25	28	28

Item	Cr.	hr.
◎General Education Courses	12	12
※Required Professional Courses	35	35
Elective Professional Courses	25	25
Total	72	72

幼兒保育系課程
規劃委員會

幼兒保育系
系主任 方惠玲

服務產業學院
院長 吳忠宏

備註：

1.1. Minimum credits required for graduation: 72, credits with 47 compulsory credits Elective credits: 25 credits with some pre-approved inter-institution elective credits.

2. The intra-institutional elective credits are permitted, but the professional elective course credits must not less than 17.

MUST Course Selection Guideline for Undergraduate Students of Academic Year 2019-2022, Department of Leisure Management

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Physical Education	1	2	1	2
	☆All-out Defense Education Military Training (I)(II)	0	1	0	1
	◎Chinese Reading and Expressions (I)(II)	2	2	2	2
	◎English(I)(II)	2	2	2	2
	▲Health Promotion	2	2		
	▲Computer Application	2	2		
	※Introduction to Leisure	2	2		
	※Multimedia Application			2	2
	※Introduction to Leisure Resource			2	2
	※Leisure business Management			2	2
	▲Applied psychology	2	2		
	Summation	13	15	11	13
	The Practice of Art	2	2		
	The Practice of Tea	2	2		
	Physical fitness testing and promotion strategies			2	2
E	Practical Pottery			2	2
	Psychology			2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎The Theory of History and Civilization	2	2		
	◎Applied English (I)(II)	2	2	2	2
	◎Law, Politics and Society			2	2
	◎Classified General Education	2	2	2	2
	※Economics	2	2		
	※Management	2	2		
	▲Service Management			2	2
	※Marketing Management for the Leisure Industry			2	2
	※Leisure Aesthetics			2	2
	※Statistics			2	2
	▲Interpersonal communication	2	2		
	Summation	12	12	14	14
	Leisure microfilm practice	2	2		
	Leisure Activity Planning	2	2		
	Leisure and Environment	2	2		
E	Practice of Tour and Guide	2	2		
	Tourism Geography	2	2		
	Cafe management	2	2		
	Analysis of International Leisure Industry	2	2		
	International Etiquette and professional image management			2	2
	The Practice of Recreation Activity			2	2
	Landscape Ecology and Conservation			2	2
	Forest Leisure Planning			2	2
	The Practice of Chinese Instrument-Music			2	2
	Tour Planning			2	2

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	◎Classified General Education	2	2	2	2
	◎Ethics for Professionals	1	1		
	※Special Foreign Language(I)(II)	2	2	2	2
	※Human Resource Management			2	2
	※Research Methods	2	2		
	※Commentary Introduction	2	2		
	※Leisure Sociology			2	2
	※Special Topic Practice(I)			1	1
	Summation	9	9	9	9
	Conference exhibition planning	2	2		
	Cultural Leisure Resource Application	2	2		
	Leisure Product Creation	2	2		
E	Management of Water Recreation Resource	2	2		
	Finance and Investment in Leisure Business	2	2		
	Health evaluate and Practice	2	2		
	Hostel Management	2	2		
	Practice of Global Distribution System	2	2		
	Information management in leisure and tourism			2	2
	Practice of Leisure Diving			2	2
	Consumer Behavior			2	2
	Project Management certification			2	2
	Humanities and Arts and Leisure Environment			2	2
	Art Museum Management			2	2
	Leisure Market Analysis			2	2
	Arts Appreciation and Analyse			2	2

Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	Hr.	Cr.	Hr.
C	※Special Topic Practice(I)	1	1		
	※Leisure Policy and Regulation	2	2		
	※Certificate of Ability			1	1
	※Topics in Leisure Industries Management			2	2
E	Summation	3	3	3	3
	Special Foreign Language(III)(IV)	2	2	2	2
	Practice of Tour Leader and Guide	2	2		
	Festivals Planning and Management	2	2		
	Travel Industry Management Practice	2	2		
	The Planning Leisure Activity for the Elderly	2	2		
	Management of Ceramic Business	2	2		
	Leisure Movies and Management	2	2		
	Sightseeing Balneology	2	2		
	An Introduction to the Activities and Design of Table	2	2		
	Resort Management			2	2
	Hot spring resort management			2	2
	Introduction of the Gaming entertainment industry			2	2
	Tea House Management			2	2
	Electronic Commerce			2	2

Item	Cr.	Hr.
◎General Compulsory Courses	27	29
▲ Basic Compulsory Profession Courses	10	10
※Compulsory Profession Courses	37	37
Elective Courses	54	54
☆All-out Defense Education Military Training	0	2
Total	128	132

C/E = Compulsory / Elective

Cr./Hr=Credit/Hour

Remarks:

- 1.Minimum credits required for graduation: 128 credits with 74 compulsory credits.
- 2.Seniors have to Proficiency Certifications and standards.
- 3.Elective just reference materials, according to revise actual situation.
4. The inter-institution elective credits are transferable, but the professional elective course credits shall not be less than 42 credits.

休閒事業管理系
系主任 廖淑容

服務產業學院
院長 廖美瑩

MUST Curriculum Guide for Undergraduate Students for Academic Years 2019-2022, Department of Senior Services Industry Management

Year I (2019)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
☆Physical Education	1	2	1	2	
(Note: All Senior Service Industry Management students must take this course.)	0	1	0	1	
◎Chinese Reading and Expression	2	2	2	2	
◎English(一)(二)	2	2	2	2	
C ▲Computer Application	2	2			
▲ Interpersonal Communication	2	2			
※Introduction to Senior Service	2	2			
※Gerontological Physiology	2	2			
※Gerontology	2	2			
※The Concepts and Practices of Elderly Care	2	2			
▲Health Promotion			2	2	
▲Service Management			2	2	
※Sociology			3	3	
Summation	17	19	12	14	
Law and Senior Service Business			2	2	
Public Health			2	2	
Aging and Movies			2	2	
E Senior Consumer Behavior			2	2	

Year II (2020)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Applied English (I) (II)	2	2	2	2	
◎Law, Politics and Society	2	2			
※Psychology	3	3			
C ※Introduction to Social Welfare	3	3			
◎Classified General Education	2	2	2	2	
◎The Theory of History and Civilization			2	2	
▲Applied Psychology			2	2	
Summation	12	12	8	8	
Life Aesthetics of the Elderly	2	2			
Guidance to Professional Licence Examination	1	1			
Community Long Term Care	2	2			
Introduction of Leisure and Health Promotion Industry	2	2			
※Social Statistics	3	3			
◇A Disability Aid Design and Information Application			2	2	
◇B Introduction to Social Work			3	3	
E ◇C Retirement Planning			2	2	
Human Behavior and Social Environment			3	3	
Elderly Care Skill and Practice			1	2	

Year III (2021)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
◎Classified General Education	2	2	2	2	
◎Ethics for Professionals			1	1	
※Social Research Methods	3	3			
C ※Long-Term Care	2	2			
Application of Needs Assessments in Long Term Care			2	2	
※Intelligent Assistive Technology for Aged Care			2	2	
Summation	7	7	7	7	
◇A Planning and Management of Nursing Facility	2	2			
◇B Social Case Work	3	3			
◇C Leisure and Recreational Activities for the Elderly	2	2			
Social Psychology	3	3			
Medication Safety of the Age	2	2			
Health Exercises	2	2			
◇A General Affairs of Nursing Facility			2	2	
E ◇B Social Group Work			3	3	
◇C Food and Nutrition for the Elderly			2	2	
Program Planning and Evaluation			3	3	
Disease and Illness Prevention for the Elderly			2	2	
Mental Development of the Elderly			2	2	
Family Dynamics			2	2	
Complementary Therapy for the Elderly			2	2	

Year IV (2022)					
Course title	1st semester		2nd semester		
	Cr.	Hr.	Cr.	Hr.	
C ◎Classified General Education	2	2			
Operation and Management of Service Business	2	2			
※Community Service in Practice			1	1	
Summation	4	4	1	1	
◇A Safety Management of Nursing Facility	2	2			
◇B Community Work	3	3			
◇C Smart Living Design	2	2			
Social Welfare Administration	3	3			
Assessments in Long Term Care	2	2			
Spiritual Caring	2	2			
Social Work Practicum(I)	1	2			
E Social Work Practicum(II)	1	2			
Planning of Living Environment for the Elderly	2	2			
Elderly Tourism Planning and Practice	2	2			
◇A Quality Management and Accreditation of Nursing Facility			2	2	
◇B Social Work Management			3	3	
◇C Financial Planning for Retirement			2	2	
Home Care Service			2	2	
Policy and Legislation Related to Sociology			3	3	
Hifelong Learning and Adult Education			2	2	
Non-Profit Organization Management			2	2	

Item	Cr.	Hr.
◎General Compulsory Courses	27	29
▲ Basic Compulsory Profession Courses	10	10
※Compulsory Profession Courses	31	31
Elective Courses	60	60
☆All-Out National Defense Education Training(I) (II)	0	2
Total	128	132

C/E = Compulsory / Elective

Cr./Hr=Credit/Hour

Remarks :

1. Minimum credits required for graduation: 128credits, including 68 requirement credits and 60 elective credits.
2. The inter-institution elective credits are transferable, but the professional elective course credits shall not be less than 48.
3. The three modules are:

◇ A Module -- Smart Care Management.

◇ B Module-- Geriatric Social Work.

◇ C Module -- Planning for Retired Life.

4. The elective courses listed here are for reference only.



老服系 主任 古旻陞

服務產業學院 院長 廖美瑩

MUST Curriculum Guide for Undergraduate Students for Academic Years 2019-2022, Department of Applied Foreign Languages (Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Physical Education	1	2	1	2
	☆ All-out Defense Education Military Training (I) (II)	0	1	0	1
	◎English (I) (II)	2	2	2	2
	◎Chinese Reading and Expression (I) (II)	2	2	2	2
	▲Programming Design and Logic Analysis	2	2		
	※English Pronunciation	2	2		
	※English Grammar (I) (II)	2	2	2	2
	※Basic English Listening and Speaking (I) (II)	2	2	2	2
Summation		13	15	9	11
E	Japanese (I) (II)	2	2	2	2
	Intercultural Communication: Theory and Practice			2	2
	English for Travelling	2	2		
	English Communication Skills			2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎General Education	2	2	2	2
	◎Applied English (I) (II)	2	2	2	2
	◎Law, Politics and Society	2	2		
	▲Management	2	2		
	◎Theory of History and Civilization			2	2
	※English Reading & Discussion (I) (II)	2	2	2	2
	※Basic English Writing (I) (II)	2	2	2	2
	※English Conversation (I) (II)	2	2	2	2
	※Intermediate English Listening and Speaking (I)(II)	2	2	2	2
Summation		16	16	14	14
E	Basic Business English	2	2		
	Foreign Language Learning Strategies	2	2		
	Intermediate Business English			2	2
	Culture and Foreign Language Teaching	2	2		
	English for Journalism			2	2
	Japanese (III) (IV)	2	2	2	2
	Hotel English			2	2

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎General Education	2	2	2	2
	※ Intermediate English Writing (I) (II)	2	2	2	2
	※Upper-Intermediate English Listening & Speaking	2	2		
	※Research Projects (I) (II)	1	1	2	2
	※English Speech			2	2
	※Upper-Intermediate English Reading			2	2
	◎Professional Ethics			1	1
Summation		7	7	11	11
E	◎Basic Financial English	2	2		
	Upper-Intermediate Financial English			2	2
	Career English	2	2		
	Presentations in English			2	2
	Language Certification Preparation	2	2		
	Professional Certification Preparation			2	2
	Intermediate Japanese (I)(II)	2	2	2	2
	Western Music and Language Teaching	2	2		
	Selected Readings in Fiction			2	2
	Language Acquisition and Development Teaching English to Children	2	2		

Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	※English-Chinese Translation: Theory & Practice (I) (II)	2	2	2	2
Summation		2	2	2	2
	Business English for Science and Technology	2	2		
	Business English Practicum			2	2
	MICE English	2	2		
	English for International Marketing			2	2
	Business English Writing	2	2		
	Business English Conversation			2	2
	Japanese Business Writing	2	2		
	Business Japanese Conversation			2	2
	Internet English	2	2		
	Practical English Conversation			2	2

Item	Cr.	hr.
◎General Education Courses	27	29
▲Basic Professional Courses (required by college)	4	4
※Required Professional Courses	43	43
Elective Professional Courses	54	54
☆All-out Defense Education Military Training	0	2
Total	128	132

Remarks:

1. Minimum credits required for graduation are 128 credits (74 required course credits, and at least 54 elective credits).
 2. No fewer than 42 professional elective credits are required with the exclusion of credits for inter-disciplinary programs.
- Note: Inter-departmental elective credits are transferable.
3. The elective courses are subject to change if necessary.

C/E = Compulsory / Electives

Cr/hr. = Credit / Hour

應用外語系
課程規劃委員會

應外系解文玉
主任

人文設計學院
院長劉崇治

MUST Curriculum Guide for Undergraduate Students for Academic Years 2019-2022, Department of Undergraduate Program of Applied Cosmetics(Continuing Education)

Year I (2019)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Physical Education	1	2	1	2
	☆All-out Defense Education Military Training(I)(II)	0	1	0	1
	◎Chinese Reading and Expressions (I)(II)	2	2	2	2
	◎English(I)(II)	2	2	2	2
	▲Program Design and Logic Analysis	2	2		
	※Manicure Practice	2	2		
	△Life Science and Experiments (I)(II)	2	2	2	2
	※Multimedia Art*	2	2		
	※Basic Sketch	2	2		
	※Introduction to Cosmetic Science			2	2
	※Manicure and Pedicure			2	2
	※Beauty Styling Sketches			2	2
Summation		15	17	13	15
E	Accessories Design	2	2		
	Applications and Practices of Computer Programming*			2	2

Year II (2020)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2
	◎Practical English(I)(II)	2	2	2	2
	◎The Theory of History and Civilization	2	2		
	※Basic Skin Care Practice	2	2		
	※Skin Physiology	2	2		
	※Cosmetic Preparation(I)(II)	2	2	2	2
	◎Law, Politics and Society			2	2
	※The Art of Chromatics			2	2
	※Skin Care Practice for Professionals			2	2
Summation		12	12	12	12
E	Chinese Herbal Cosmetology	2	2		
	Practical Trichology	2	2		
	Introduction to Biotechnology	2	2		
	Hair Removal Technology Practice			2	2
	The Chemistry of Essential Oils			2	2
	Nutrition of Beauty			2	2

Year III (2021)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Classified General Education	2	2	2	2
	※Advanced Make-up Artistry Practice	2	2		
	※Skin Management	2	2		
	※Hair Style Design	3	3		
	※Formative Principle	2	2		
	※Health regulations and case studies	2	2		
	▲Management			2	2
	※Advanced Make-up Artistry Practice			2	2
	※Styling Design			3	3
	※Raw Material of Cosmetics			2	2
Summation		13	13	11	11
E	Prosthetic Makeup	2	2		
	Formula Compositions of Care Products	2	2		
	Commercial Product Package and Design	2	2		
	Fragrance art	2	2		
	The Theory of Arts and Application of Fashions			2	2
	Colour Scheme			2	2
	The Application of Fragrant Essence			2	2
	Biocosmetology			3	3

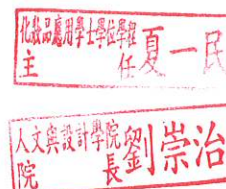
Year IV (2022)					
Course title		1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
C	◎Ethics for Professionals	1	1		
	※Cosmetology Instruments	2	2		
	※Specialized Research and Practice (I)(II)	2	2	2	2
	※Pose and Etiquette			3	3
Summation		5	5	5	5
E	Prosthetic Makeup	3	3		
	Cosmetics Marketing	2	2		
	Bridal secretary practice	3	3		
	Fashion Design	3	3		
	Cosmetics Agency Management			3	3
	Innovation and entrepreneurship practice			2	2
	Aesthetic medicine			2	2
	Beauty and Health			2	2

Item	Cr.	hr.
◎General Education Courses	27	29
▲Basic Professional Courses (required by college)	4	4
※Required Professional Courses	55	55
Elective Professional Courses	42	42
☆All-out Defense Education Military Training	0	2
Total	128	132

C/E = Compulsory / Electives
Cr/hr. = Credit / Hour

Remarks:

1. Minimum credits required for graduation are 128 credits(86 required credits and at least 42 elective credits).
2. No fewer than 24 professional elective credit are required with the exclusion of credits for inter-disciplinary programs.
3. The elective courses are subject to change if necessary.



MUST Curriculum Guide for Undergraduate Students for Academic Years 2019-2022, Department of Multimedia and Game Development (Continuing Education)

Year I (2019)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
☆All-out Defense Education Military Training(I/II)	0	1	0	1	
◎Physical Education	1	2	1	2	
◎Chinese Reading and Expression(I/II)	2	2	2	2	
◎English(I/II)	2	2	2	2	
◎Classified General Education			2	2	
▲Program Design and Logic Analysis	2	2			
▲Management	2	2			
※Basic Programming Design(I/II)	2	2	2	2	
※Design of Basic Digital Art	2	2			
※Introduction to Multimedia Industry	2	2			
※Introduction to Game Competition Production	2	2			
※Information Mathematics			2	2	
※Basic Character Design			2	2	
※Storytelling and Script Writing			2	2	
※Introduction to Drama			2	2	
Summation	17	19	17	19	
E					

Year II (2020)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
◎Applied English(I/II)	2	2	2	2	
◎Law, Politics and Society	2	2			
◎Classified General Education	2	2	2	2	
◎The Theory of History and Civilization			2	2	
※Game Design and Programming(I/II)	2	2	2	2	
※Game Competition and Production Practice(I/II)	2	2	2	2	
※Probability and Big Data	2	2			
※2D/3D Basic Animation	2	2			
Summation	14	14	10	10	
E	Image Style and Photography Aesthetics	2	2		
	Basic Practice of Game Competition	2	2		
	Practice of Multimedia and Game Design	2	2		
	Advanced Character Design	2	2		
	Introduction to Game Competition Operation			2	2
	New Media and Internet Celebrity Economy			2	2
	Questionnaire Survey and Statistics			2	2
	2D/3D Advanced Animation			2	2
	Directing			2	2
	VR Modelling			2	2

Year III (2021)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
◎Classified General Education	2	2			
◎Ethics for Professionals	1	1			
※Multimedia Professional English	2	2			
※Project(I)			1	1	
Summation	5	5	1	1	
E	Story Design and Storyboard Making	2	2		
	Game Competition Operating	2	2		
	Self-media Marketing and Member Operating	2	2		
	Scene Design	2	2		
	Game OB Practice	2	2		
	Production Practice of Advanced Game Competition	2	2		
	Practice of 3D Model Texture	2	2		
	Practice of Directing and Photography	2	2		
	Effects of Game Particle System			2	2
	AI Practice and Application			2	2
	Introduction to IP Industry Chain			2	2
	Game Project Management			2	2
	New Media Application and Precision Marketing			2	2
	eSport Product Brand and Marketing			2	2
	Omnimedia Producer			2	2
	App Programming			2	2

Year IV (2022)					
Course title	1st semester		2nd semester		
	Cr.	hr.	Cr.	hr.	
※Project(II)	1	1			
※Guidance of Multimedia Professional Certification			2	2	
Summation	1	1	2	2	
E	Game Engine Practice	2	2		
	Practice of Scene Design	2	2		
	Practice of Game Script and Storyline	2	2		
	Practice of Game Competition	2	2		
	Advanced Brand Promotion	2	2		
	VR Practice and Application	2	2		
	Practice and Application of Game Character	2	2		
	Big Data Analytics	2	2		
	AR Practice and Application			2	2
	Advanced Marketing Advertisement			2	2
	Practice of Anchor and Commentary			2	2
	Professional Manager			2	2
	Guidance of Information Certification			2	2
	Object-Oriented Programming			2	2
	Practice of Intelligent Game Design			2	2

Item	Cr.	hr.
◎General Education Courses	27	29
▲Basic Professional Courses (required by college)	4	4
※Required Professional Courses	36	36
Elective Professional Courses	61	61
☆All-out Defense Education Military Training	0	2
Total	128	132

C/E = Compulsory / Electives
Cr/hr. = Credit / Hour

Remarks:

1. Minimum credits required for graduation are 128 credits(67 required credits and at least 61 elective credits).
2. No fewer than 49 professional elective credit are required with the exclusion of credits for inter-disciplinary program
Note: Inter-departmental elective credits are transferable.
3. The elective courses are subject to change if necessary.
4. The courses offered in the Department of Computer Science and Information Engineering and the Department of Information Management can be approved as professional elective credits.
5. The courses offered in the Software Engineering Program can be approved as professional elective credits.

主 任 曾 俊 霖

院 長 劉 崇 治(甲)