

Code : 25610041100042

Bachelor of Science Program in Digital Innovation (International Program) (2566) (Copy : 12 ธ.ค. 2023 13:03:)

**Name of the degree**

Full : Bachelor of Science (Digital Innovation)

Abbreviation : B.S. (Digital Innovation)

**Curriculum structure**

<b>(1) General Education</b>					<b>30</b>
<b>1. Required Courses</b>					<b>21</b>
<b>Learner Person</b>					<b>15</b>
001101	ENGL	101	Fundamental English 1		3(3-0-6)
001102	ENGL	102	Fundamental English 2		3(3-0-6)
001201	ENGL	201	Critical Reading and Effective Writing		3(3-0-6)
001225	ENGL	225	English in Science and Technology Context		3(3-0-6)
Choose one course from the followings:					
204100	CS	100	Information Technology and Modern Life		3(3-0-6)
261111	CPE	111	Internet and Online Community		3(3-0-6)
953111	SE	111	Software for Everyday Life		3(3-0-6)
<b>Innovative Co-creator</b>					<b>3</b>
Select 1 cours from the following:					
159100	SA	100	Modern World in Everyday Life		3(3-0-6)
201110	SC	110	Integrated Mathematical Sciences		3(3-0-6)
201117	SC	117	Mathematics and Science in Civilization		3(3-0-6)
208102	STAT	102	Statistical Reasoning and Thinking		3(3-0-6)
751100	ECON	100	Economics for Everyday Life		3(3-0-6)
176100	LAGE	100	Law and Modern World		3(3-0-6)
703103	MGMT	103	Introduction to Entrepreneurship and Business		3(3-0-6)
013110	PSY	110	Psychology and Daily Life		3(3-0-6)
<b>Active Citizen</b>					<b>3</b>
140104	PG	104	Citizenship		3(3-0-6)
<b>2. GE Electives</b>					<b>9</b>
A student also chooses 9 credits from the followings:					
057122	EDPE	122	Swimming for Life and Exercise		1(1-0-2)
057127	EDPE	127	Badminton for Life and Exercise		1(1-0-2)
057138	EDPE	138	Thai Wisdom Sports for Self-Defense		3(3-0-6)
259109	ENGR	109	Telecommunication in Thailand		3(3-0-6)

Firefox	https://mis.cmu.ac.th/TQF/TQF2/CurriculumPublic.aspx?EID=47...				
359204	HORT	204	Horticulture for Health	2(2-0-4)	
359206	HORT	206	Landscape, Environment, Behaviors, and Minds	3(3-0-6)	
461100	PHPS	100	Herbs for Health and Beauty	3(3-0-6)	
702101	FINA	101	Finance for Daily Life	3(3-0-6)	
888102	DIN	102	Big Data for Business	3(3-0-6)	
159151	SA	151	Lanna Society and Culture	3(3-0-6)	
888106	DIN	106	Communication and Networking in Online Society	3(3-0-6)	
888194	DIN	194	Service Learning in Society 5.0	3(3-0-6)	
<b>2. Field of Specialization : a minimum of</b>				<b>96</b>	
<b>2.1 Core Courses</b>				<b>24</b>	
204101	CS	101	Introduction to Computer Science	3(2-2-5)	
204217	CS	217	Computer Programming Languages	3(2-2-5)	
206113	MATH	113	Calculus for Software Technology	3(3-0-6)	
or	206171	MATH	171	General Mathematics 1	3(3-0-6)
	206255	MATH	255	Mathematics for Software Technology	3(3-0-6)
or	206172	MATH	172	General Mathematics 2	3(3-0-6)
or	888152	DIN	152	Programming for Data Visualization in Business	3(2-3-4)
	208150	STAT	150	Probability and Statistics	3(3-0-6)
	888111	DIN	111	Innovative Entrepreneurship Theory and Practice	3(3-0-6)
	888121	DIN	121	Digital Economy	3(3-0-6)
	888231	DIN	231	Ecosystem of E-Commerce in Innovative Economy	3(3-0-6)
<b>2.2 Major : a minimum of</b>				<b>72</b>	
<b>2.2.1 Requirements</b>				<b>33</b>	
	204251	CS	251	Data Structures	3(3-0-6)
	206281	MATH	281	Discrete Mathematics	3(3-0-6)
or	208251	STAT	251	Regression Analysis and Non-parametric Statistics	3(2-2-5)
or	888212	DIN	212	Fundamental Digital Tools for Entrepreneurs	3(2-3-4)
	208250	STAT	250	Statistical Methods for Data Science	3(2-2-5)
	888151	DIN	151	Digital Innovation and Trends	3(3-0-6)
	888211	DIN	211	Fundraising in Digital Economy	3(3-0-6)
	888232	DIN	232	Intellectual Property Management and Negotiation in Digital Economy	3(3-0-6)
	888251	DIN	251	Digital Platforms	3(3-0-6)
	888311	DIN	311	Digital Business Ecosystem	3(3-0-6)
	888399	DIN	399	Technology Startup Project Survey	3(0-9-0)
	888498	DIN	498	Technology Startup Pre-Project	3(0-9-0)
	888499	DIN	499	Technology Startup Project	3(0-9-0)
<b>2.2.2 Major Electives : a minimum of</b>				<b>39</b>	
	204321	CS	321	Database Systems	3(2-2-5)
	204423	CS	423	Data Mining	3(3-0-6)
	204453	CS	453	Pattern Recognition	3(2-2-5)
	208350	STAT	350	Applied Multivariate Statistics for Data Science	3(3-0-6)
	208450	STAT	450	Analytics for Observational Data	3(3-0-6)
	208451	STAT	451	Analytics for Experimental and Simulated Data	3(2-2-5)

888312	DIN	312	Startup in Health Business	3(2-3-4)
888341	DIN	341	Startup in Internet and Mobile Technology	3(1-4-4)
888342	DIN	342	Introduction to Management Information System	3(3-0-6)
888350	DIN	350	Implementation of STEM in Business for Sustainable Development Goals	3(3-0-6)
888361	DIN	361	Startup in Energy and Logistics Management	3(1-4-4)
888411	DIN	411	Operation Research for Digital Innovation	3(3-0-6)
888450	DIN	450	Startup in Digital Technology	3(1-4-4)
888451	DIN	451	Startup in Smart Electronic Technology	3(1-4-4)
888452	DIN	452	Startup in Agriculture and Biotechnology Industry	3(1-4-4)
888453	DIN	453	Startup in Food for Future Industry	3(1-4-4)
888454	DIN	454	Startup in Biofuel and Biochemical Technology	3(1-4-4)
888455	DIN	455	Blockchain Security Design for Financial Technology	3(3-0-6)
888461	DIN	461	Startup in Manufacturing	3(1-4-4)

2.3 Minor (if any) : a minimum of

15

Students who would like to take minor courses according to CMU announcement on Minor Courses for Chiang Mai University students for at least 15 credits with approval from academic advisors. This will result in the increase of the total credits of the program for at least 15 credits.

3. Free Electives : a minimum of

6

Total : a minimum of

132

## Study plan

### First Year

<u>First Semester</u>				<u>Credits</u>
001101	ENGL	101	Fundamental English 1	3(3-0-6)
204101	CS	101	Introduction to Computer Science	3(2-2-5)
206113	MATH	113	Calculus for Software Technology	3(3-0-6)
or 206171	MATH	171	General Mathematics 1	3(3-0-6)
208150	STAT	150	Probability and Statistics	3(3-0-6)
888111	DIN	111	Innovative Entrepreneurship Theory and Practice	3(3-0-6)
GE (Elective)				3
General Education Elective (Innovative Co-creator)				3

Total 21

<u>Second Semester</u>				<u>Credits</u>
001102	ENGL	102	Fundamental English 2	3(3-0-6)
140104	PG	104	Citizenship	3(3-0-6)
204217	CS	217	Computer Programming Languages	3(2-2-5)
206255	MATH	255	Mathematics for Software Technology	3(3-0-6)
or 206172	MATH	172	General Mathematics 2	3(3-0-6)
or 888152	DIN	152	Programming for Data Visualization in Business	3(2-3-4)
208250	STAT	250	Statistical Methods for Data Science	3(2-2-5)

888121	DIN	121	Digital Economy	3(3-0-6)
888151	DIN	151	Digital Innovation and Trends	3(3-0-6)
<b>Total</b>				<b>21</b>
<b>Second Year</b>				
<b><u>First Semester</u></b>				<b>Credits</b>
001201	ENGL	201	Critical Reading and Effective Writing	3(3-0-6)
204251	CS	251	Data Structures	3(3-0-6)
206281	MATH	281	Discrete Mathematics	3(3-0-6)
or 208251	STAT	251	Regression Analysis and Non-parametric Statistics	3(2-2-5)
or 888212	DIN	212	Fundamental Digital Tools for Entrepreneurs	3(2-3-4)
888231	DIN	231	Ecosystem of E-Commerce in Innovative Economy	3(3-0-6)
888251	DIN	251	Digital Platforms	3(3-0-6)
204100	CS	100	Information Technology and Modern Life	3(3-0-6)
or 261111	CPE	111	Internet and Online Community	3(3-0-6)
or 953111	SE	111	Software for Everyday Life	3(3-0-6)
General Education (Electives)				3
<b>Total</b>				<b>21</b>
<b><u>Second Semester</u></b>				<b>Credits</b>
001225	ENGL	225	English in Science and Technology Context	3(3-0-6)
888211	DIN	211	Fundraising in Digital Economy	3(3-0-6)
888232	DIN	232	Intellectual Property Management and Negotiation in Digital Economy	3(3-0-6)
888311	DIN	311	Digital Business Ecosystem	3(3-0-6)
Major Elective				3
General Education (Electives)				3
<b>Total</b>				<b>18</b>
<b>Third Year</b>				
<b><u>First Semester</u></b>				<b>Credits</b>
Major Elective				3
Major Elective				3
Major Elective				3
Major Elective				3
Free Elective				3
<b>Total</b>				<b>15</b>
<b><u>Second Semester</u></b>				<b>Credits</b>
888399	DIN	399	Technology Startup Project Survey	3(0-9-0)
Major Elective				3
Major Elective				3
Major Elective				3
Free Elective				3

Total 15

## Fourth Year

First Semester

Credits

888498 DIN 498 Technology Startup Pre-Project

3(0-9-0)

Major Elective

3

Major Elective

3

Major Elective

3

Total 12Second Semester

Credits

888499 DIN 499 Technology Startup Project

3(0-9-0)

Major Elective

3

Total 6