

**Program-specific Credit Requirements of Major and Dual Degree Programs under the 30-credit Common Core Curriculum**  
(Updated as of 11 July 2023)

The following tables contain information of credit requirements of first major and dual degree programs. They are arranged in this order:

- School of Science (SSCI)
- School of Engineering (SENG)
- School of Business and Management (SBM)
- School of Humanities and Social Science (SHSS)
- Academy of Interdisciplinary Studies (AIS)
- Joint-school programs (JS)

Students are recommended to read carefully about individual school/program credit requirement as it may vary.

School of Science (SSCI)				
School of Science (SSCI)	Undergraduate Programs	Biochemistry and Cell Biology (BCB) Biological Science (BISC) Biotechnology (BIOT) Chemistry (CHEM)	Data Analytics in Science (DASC) Mathematics (MATH) Ocean Science and Technology (OST) Physics (PHYS)	
	Common Core Groups	Common Core Areas	Credit Requirements	
			Required	Elective
	<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
	<b>Broadening</b>	Arts (A)	3	0
		Humanities (H)	3	
		Science (S)	0	
		Technology (T)	3	
		Social Analysis (SA)	3	
	<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
		Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
		English Communication (E-Comm)	6	
		Chinese Communication (C-Comm)	3	
		Total Credits	24	6
			30	

**Program-specific Credit Requirements of Major Programs under the 30-credit Common Core Curriculum**

School of Engineering (SENG)			
Undergraduate Programs	Aerospace Engineering (AE) Civil and Environmental Engineering (CIEV) Civil Engineering (CIVL) BEng in Computer Science (COMP) BSc in Computer Science (COSC) Computer Engineering (CPEG)	Decision Analytics (DA) Electronic Engineering (ELEC) Industrial Engineering and Engineering Management (IEEM) Integrative Systems and Design (ISDN) Mechanical Engineering (MECH) Sustainable Energy Engineering (SUSEE)	
	<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>
		<b>Required</b>	<b>Elective</b>
<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
<b>Broadening</b>	Arts (A)	3	0
	Humanities (H)	3	
	Science (S)	3	
	Technology (T)	0	
	Social Analysis (SA)	3	
<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	<b>Total Credits</b>	24	6
		30	
<b>School of Engineering (SENG)</b>			
Undergraduate Programs	Bioengineering (BIEN) Chemical and Environmental Engineering (CEEV) Chemical Engineering (CENG)		
	<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>
		<b>Required</b>	<b>Elective</b>
<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
<b>Broadening</b>	Arts (A)	3	3
	Humanities (H)	3	
	Science (S)	0	
	Technology (T)	0	
	Social Analysis (SA)	3	
<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group )</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	<b>Total Credits</b>	21	9
		30	

**Program-specific Credit Requirements of Major Programs under the 30-credit Common Core Curriculum**

School of Business and Management (SBM)				
<b>School of Business and Management (SBM)</b>	<b>Undergraduate Programs</b>	<b>Professional Accounting (ACCT)</b> <b>Economics (ECON)</b> <b>Economics and Finance (ECOF)</b> <b>Finance (FINA)</b> <b>General Business Management (GBM)</b> <b>Global Business (GBUS)</b>	<b>Information Systems (IS)</b> <b>Marketing (MARK)</b> <b>Management (MGMT)</b> <b>Operations Management (OM)</b> <b>Quantitative Finance (QFIN)</b>	
	<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>	
			<b>Required</b>	<b>Elective</b>
	<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	<b>Broadening</b>	Arts (A)	3	0
		Humanities (H)	3	
		Science (S)	3	
		Technology (T)	3	
		Social Analysis (SA)	0	
	<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
		Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
		English Communication (E-Comm)	6	
		Chinese Communication (C-Comm)	3	
	Total Credits	24	6	
		30		
<b>Undergraduate Program</b>	<b>World Business (WBB)</b>			
<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>		
		<b>Required</b>	<b>Elective</b>	
<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	0 or 3 <i>(This is an optional course.)</i>	
<b>Broadening</b>	Arts (A)	3	0	
	Humanities (H)	10		
	Science (S)	8		
	Technology (T)	3		
	Social Analysis (SA)	0		
<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	4	N/A	
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	0		
	English Communication (E-Comm)	4		
	Chinese Communication (C-Comm)	3		
	Total Credits	35	0 or 3	
		35-38		

**Program-specific Credit Requirements of Major Programs under the 30-credit Common Core Curriculum**

School of Humanities and Social Science (SHSS)				
School of Humanities and Social Science (SHSS)	<b>Undergraduate Program</b>	<b>Global China Studies (GCS)</b>		
	<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>	
			<b>Required</b>	<b>Elective</b>
	<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	<b>Broadening</b>	Arts (A)	3	3
		Humanities (H)	0	
		Science (S)	3	
		Technology (T)	3	
		Social Analysis (SA)	0	
	<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
		Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
		English Communication (E-Comm)	6	
		Chinese Communication (C-Comm)	3	
		Total Credits	21	9
			30	
<b>Undergraduate Program</b>	<b>Quantitative Social Analysis (QSA)</b>			
<b>Common Core Groups</b>	<b>Common Core Areas</b>	<b>Credit Requirements</b>		
		<b>Required</b>	<b>Elective</b>	
<b>Experiencing</b>	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>	
<b>Broadening</b>	Arts (A)	3	0	
	Humanities (H)	3		
	Science (S)	3		
	Technology (T)	3		
	Social Analysis (SA)	0		
<b>Foundations</b>	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>	
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A	
	English Communication (E-Comm)	6		
	Chinese Communication (C-Comm)	3		
	Total Credits	24	6	
		30		

**Program-specific Credit Requirements of Major Programs under the 30-credit Common Core Curriculum**

Academy of Interdisciplinary Studies (AIS)			
Undergraduate Program	Environmental Management and Technology (EVMT)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	0
	Humanities (H)	3	
	Science (S)	3	
	Technology (T)	3	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	Total Credits	24	6
		30	
Undergraduate Program	Individualized Interdisciplinary Major (IIM)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	12 <i>(Credit requirement may differ for individual students, please contact AIS.)</i>	
	Humanities (H)		
	Science (S)		
	Technology (T)		
	Social Analysis (SA)		
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	Total Credits	24	6
		30	

Academy of Interdisciplinary Studies (AIS)

**Program-specific Credit Requirements of Dual Degree Program under the 30-credit Common Core Curriculum**

Academy of Interdisciplinary Studies (AIS)				
Academy of Interdisciplinary Studies (AIS)	Undergraduate Programs	Dual degree Program (DDP): School of Science (SSCI) & School of Business and Management (SBM):		
		Science Option:	Business Option:	
		Biotechnology (BIOT)	Economics (ECON) Finance (FINA) General Business Management (GBM) Global Business (GBUS) Marketing (MARK) Management (MGMT)	
	Common Core Groups	Common Core Areas	Credit Requirements	
			Required	Elective
	Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Broadening	Arts (A)	3	3
		Humanities (H)	3	
		Science (S)	0	
		Technology (T)	3	
Social Analysis (SA)		0		
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>	
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A	
	English Communication (E-Comm)	6		
	Chinese Communication (C-Comm)	3		
	Total Credits	21	9	
		30		

**Program-specific Credit Requirements of Dual Degree Programs under the 30-credit Common Core Curriculum**

Academy of Interdisciplinary Studies (AIS)			
	Dual degree Program (DDP): School of Engineering (SENG) & School of Business and Management (SBM)		
		Engineering Option:	Business Option:
Undergraduate Programs		Aerospace Engineering (AE) Civil and Environmental Engineering (CIEV) Civil Engineering (CIVL) BEng in Computer Science (COMP) Computer Engineering (CPEG) Decision Analytics (DA) Electronic Engineering (ELEC) Industrial Engineering and Engineering Management (IEEM) Integrative Systems and Design (ISDN) Mechanical Engineering (MECH)	Economics (ECON) Finance (FINA) General Business Management (GBM) Global Business (GBUS) Marketing (MARK) Management (MGMT)
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	3
	Humanities (H)	3	
	Science (S)	3	
	Technology (T)	0	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	Total Credits	21	9
		30	
Academy of Interdisciplinary Studies (AIS)			
	Dual degree Program (DDP): School of Engineering (SENG) & School of Business and Management (SBM)		
		Engineering Option:	Business Option:
Undergraduate Programs		Bioengineering (BIEN) Chemical Engineering (CENG)	Economics (ECON) Finance (FINA) General Business Management (GBM) Global Business (GBUS) Marketing (MARK) Management (MGMT)
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	6
	Humanities (H)	3	
	Science (S)	0	
	Technology (T)	0	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
	Total Credits	18	12
		30	

**Program-specific Credit Requirements of Major Programs under the 30-credit Common Core Curriculum**

School of Science (SSCI) & School of Business and Management (SBM)			
Undergraduate Programs	Biotechnology and Business (BIBU) Mathematics and Economics (MAEC)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	3
	Humanities (H)	3	
	Science (S)	0	
	Technology (T)	3	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
Total Credits		21	9
30			
School of Science (SSCI) & School of Engineering (SENG)			
Undergraduate Program	Data Science and Technology (DSCT)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	3
	Humanities (H)	3	
	Science (S)	0	
	Technology (T)	0	
	Social Analysis (SA)	3	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
Total Credits		21	9
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Joint- School Programs (JS)



**Program-specific Credit Requirements of Major Program under the 30-credit Common Core Curriculum**

School of Science (SSCI), School of Engineering (SENG) & School of Business and Management (SBM)			
Undergraduate Program	Risk Management and Business Intelligence (RMBI)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	6
	Humanities (H)	3	
	Science (S)	0	
	Technology (T)	0	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
Total Credits		18	12
30			
School of Business and Management (SBM) & Academy of Interdisciplinary Studies (AIS)			
Undergraduate Program	Sustainable and Green Finance (SGFN)		
Common Core Groups	Common Core Areas	Credit Requirements	
		Required	Elective
Experiencing	Undergraduate experiential Opportunities Programs (UxOP)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
Broadening	Arts (A)	3	0
	Humanities (H)	3	
	Science (S)	3	
	Technology (T)	3	
	Social Analysis (SA)	0	
Foundations	Cognitive Foundations of University Education: Critical Thinking and Data Literacy (CTDL)	0	3 <i>(Substitutable by any 3 credits under ANY area in Broadening group)</i>
	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness (HMW)	3	N/A
	English Communication (E-Comm)	6	
	Chinese Communication (C-Comm)	3	
Total Credits		24	6
30			

Joint- School Programs (JS)