VINUNIVERSITY

CURRICULUM FRAMEWORK

BACHELOR OF ARTS IN

ECONOMICS

PROGRAM CODE: 7310101

Applicable for Cohort 2026-2030 from Academic Year 2026-2027

(Released along with Decision No. 1010/2026/QĐ-VUNI dated August 25, 2026 by Provost of VinUniversity)

This curriculum framework has been reviewed and developed in collaboration by Cornell University

Records of changes

Version	Published date	Effective Date	Approved by	Description of changes
1	25/08/2026	25/08/2026	Developed by: Curriculum Review Taskforce Reviewed by: CAS Taskforce, Dean of CAS, Accreditation & Quality Assurance Department, Educational Affairs Committee. Approved by: Provost (Decision No. 1010/2026/QĐ-VUNI, Dated: 25/08/2026, by the Provost of VinUniversity).	First release

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1. PROGRAM OVERVIEW

1.1 Program Profile

Name of the degree	Bachelor of Arts in Economics
Name of the program	Bachelor of Arts in Economics
Program Code	7310101
Vietnam Qualifications Framework Level	6
Length of Program	4 years
Mode of Delivery	Full-time
Language of Delivery	English
Total credits	120 credits (without Minor) 135 credits (with Minor)
Home College	College of Arts and Sciences

1.2 Program Purpose

The overall objective of the Bachelor of Arts in Economics program is to train experts for businesses and organizations by equipping students with critical thinking, creativity, and analytical skills with the foundation of economic theory and tools. After completing the program, students are expected to gain comprehensive knowledge and thinking capacity, decision-making skills, grasp of market rules, and policy analysis to be able to work flexibly in suitable positions in economic, business, research, educational, governmental, and non-governmental organizations. In addition to the above, students are also expected to be able to pursue professional development in Master's and Doctoral programs in the same or other related fields at domestic and foreign universities.

2. PROGRAM EDUCATIONAL OBJECTIVES AND PROGRAM LEARNING OUTCOMES

2.1 Program Educational Objectives

PEO 1: Professional Competence and Adaptability

Graduates will apply comprehensive knowledge of economics, critical thinking, and analytical decision-making skills to perform effectively in diverse roles across economic, business, research, educational, governmental, and non-governmental organizations.

PEO 2: Policy and Market Insight
Graduates will demonstrate a sound understanding of market mechanisms and public policy frameworks, enabling them to contribute to evidence-based solutions in complex economic and societal contexts.

PEO 3: Lifelong Learning and Academic Advancement
Graduates will be prepared to pursue advanced studies and continuous professional development through Master's and Doctoral programs in economics and related disciplines, both in Vietnam and internationally.

2.2 Program Learning Outcomes

After successful completion of the program, students are able to:

PROGRAM LEARNING OUTCOMES (PLOs)	PERFORMANCE INDICATORS (PIs)
I. KNOWLEDGE	
I.1. General Knowledge	
PLO 1: Apply knowledge of politics, law, sustainability, cross-cultures, globalization, and arts and humanities to the field of Economics.	**PI 1.1: Provide** personal criticism on topics related to politics.
	PI 1.2: Apply knowledge of law and regulations to the field of Economics.
	PI 1.3: Apply knowledge of sustainability, cross-cultures, and globalization to the field of Economics.
	PI 1.4: Apply knowledge of arts and humanities to the field of Economics.
I.2. Foundational Knowledge	
PLO 2: Apply fundamental economic principles, and quantitative and analytical methods to analyze, model, and forecast economic phenomena.	**PI 2.1: Apply** fundamental economic concepts to analyze individual, market, and macroeconomic behavior.
	PI 2.2: Apply statistical and quantitative methods to analyze social and economic data.
	PI 2.3: Apply microeconomic models to analyze individual and market behavior, and assess the impact of economic policies.
	PI 2.4: Apply econometric knowledge to model and forecast economic relationships and trends.
	PI 2.5: Apply knowledge about machine learning, big data, and artificial intelligence to analyze and interpret economic data for informed decision-making.
I.3. Professional Knowledge	
Strategy and Market Analysis Focus	
PLO 3a: Solve complex challenges in enterprises, markets, technological changes, and policy environments by applying economic theories, institutional frameworks, and strategic decision-making methodology.	**PI 3a.1: Apply** game theory, behavioral insights, and strategic analysis to make appropriate economic and business decisions.
	PI 3a.2: Analyze the role of institutions, policies, and regulations in shaping economic behavior and market outcomes.
	PI 3a.3: Propose strategies for enterprises and policymakers to foster economic growth, stability, and equity. (E.X.C.E.L.)
	PI 3a.4: Solve complex challenges in enterprises.

Innovation Economics Focus	
PLO 3b: Forecast changes in technological innovations to address their challenges and how they affect organizations, society, and the economy.	**PI 3b.1: Evaluate** the impact of technological innovation on economic development, industrial transformation, and global competitiveness.
	PI 3b.2: Analyze the role of innovation systems in advancing science, technology, and economic growth.
	PI 3b.3: Solve complex challenges in technological changes in sustainable development.
Non-focus Pathway	
PLO 3c: Solve complex economic and economics-related challenges and problems by applying economic theories, institutional frameworks, and strategic decision-making methodology.	**PI 3c.1: Apply** economic theories and frameworks to make appropriate economic and business decisions.
	PI 3c.2: Solve economic and economics-related **complex** problems and challenges**.**
Development Economics and Public Policy Focus	
PLO 3d: Solve complex development and public policy challenges by applying economic theories, institutional frameworks, and evidence-based policy analysis to promote inclusive, sustainable, and equitable development.	**PI 3d.1: Apply** development economics theories and policy frameworks to analyse poverty, inequality, human development, and socio-economic transformation.
	PI 3d.2: Evaluate the role of institutions, governance, and public policy in shaping development outcomes and addressing social and economic challenges.
	PI 3d.3: Apply evidence-based analysis to **solve** complex development and public policy challenges.
	PI 3d.4: Propose evidence-based policy solutions to promote inclusive growth, social equity, and sustainable development. (E.X.C.E.L.)
II. SKILLS	
II. 1. Professional Skills	
PLO 4: Apply quantitative methods and analytical tools to make informed decisions, solve complex problems, and contribute to sustainable economic development.	**PI 4.1: Apply** statistical techniques, quantitative methods and econometric tools to model, interpret, and forecast economic trends and behaviors.
	PI 4.2: Apply strategic decision-making, behavioral insights, and advanced tools to solve complex economic and business problems.
II.2. General Skills	
PLO 5: Conduct research to solve problems and discover knowledge in the field of Economics.	**PI 5.1: Determine** survey, experiment, or research objectives that meet societal needs or contribute to the development of the field.
	PI 5.2: Design surveys, experiments, or research using methods appropriate to the survey, experiment or research objectives.

	PI 5.3: Properly **implement** survey, experiment, or research methods.
	PI 5.4: Collect data and information that meet the requirements of the survey, experiment, or research.
	PI 5.5: Scientifically validate survey, experiment, or research results.
	PI 5.6: Draw appropriate conclusions and propose innovative solutions for applying survey, experiment, or research results in practice.
PLO 6 (Critical and Creative Thinking Skills): Demonstrate critical and creative thinking skills, and problem-solving skills.	**PI 6.1: Generate** arguments to formulate and test evidence-based solutions for addressing complex problems in the field of Economics.
	PI 6.2: Propose innovative solutions to address real-world problems. (E.X.**C.**E.L.)
	PI 6.3: Systematically **solve** practical issues in the field of Economics at local, regional, and global scales.
PLO 7 (Teamwork and Leadership Skills): Coordinate and **lead** diverse teams across disciplines and cultures.	**PI 7.1: Demonstrate** one's sense of autonomy, judgment, and adaptability when working in diverse teams across disciplines and cultures. (E.X.C.E.**L.**)
	PI 7.2: Lead and **innovate** within the corporate and organizational environment. (E.X.C.E.**L.**)
PLO 8 (Communication and Globalization Skills): Communicate effectively with a range of audiences across cultures.	**PI 8.1: Communicate** through multimedia formats using written and spoken language.
	PI 8.2: Navigate multicultural and globalized environments with adaptability and respect for both common standards and diverse perspectives. (**E.**X.C.E.L.)
III. ATTITUDE	
PLO 9 (Ethics, Responsibility): Demonstrate professional ethics and social responsibility as both a professional and a citizen.	**PI 9.1: Approach** local and global challenges in research, professional practice, and civic life with personal integrity and intellectual rigor.
	PI 9.2. Adhere to ethical standards in professional practice, research, and community engagement, demonstrating respect for diversity and a commitment to social responsibility.
PLO 10 (Lifelong Learning): Demonstrate entrepreneurial mindset and a lifelong learning attitude to adapt to an evolving professional landscape.	**PI 10.1:** Continuously **engage** in reflection-in-action to identify strengths and areas for improvement, goals and career development paths.
	PI 10.2: Identify opportunities to innovate within professional practices by applying entrepreneurial principles. (E.X.C.**E.**L.)

3. CURRICULUM STRUCTURE

3.1 Curriculum Composition

No.	Curriculum Components	Number of Credits	Credit Distribution (%/Total Credits)
I	**VINCORE**	**35**	**29.2%**
I.1	Enterprise and Innovation	4	3.3%
I.2	Leadership Mindset	2	1.7%
I.3	Civic Responsibility	2	1.7%
I.4	Ethics	2	1.7%
I.5	Community Service Learning	45 hours	
I.6	Working with the Brain	2	1.7%
I.7	Working with Technology	4	3.3%
I.8	Working with Others	4	3.3%
I.9	Working with the Self	90 hours	
I.10	Ideology Education	11	9.2%
I.11	Global Citizenship and Sustainability	2	1.7%
I.12	Creative Arts	2	1.7%
I.13	Global Experience	0	0.0%
II	**PROFESSIONAL EDUCATION**	**73**	**60.8%**
II.1	College Core Requirement	13	10.8%
II.2	Major Core Requirement	27	22.5%
II.3	Area of Focus	15	12.5%
II.4	Electives	18	15%
II.5	Minor*	15*	
III	**PRACTICE / INTERNSHIP**	**6**	**5.0%**
IV	**GRADUATION CAPSTONE**	**6**	**5.0%**
	TOTAL	**120 (135*)**	**100%**

Important Note:

- The Vincore Program has been issued along with the Decision No. 983/2026/VUNI dated August 21, 2026.
- Students have the option to obtain a minor in a different area of study offered by CAS or other colleges. **A minor needs to have at least 15 credits that are not already counted towards the major program**. Information about the available minors is provided here: LINK
- International students are exempted from National Defense Education. For Ideology Education, international students will receive appropriate language support to facilitate their learning and successful completion of the course requirements.

3.2 Courses and Credit Distribution by Courses

No.	Course code	Name of Courses	Total credits	Credit Hour Allocation		Pre-requisite(s)	Grading system (L=Letter Grade or P/F=Pass /Fail
				Theory	Practice		
I	**VINCORE**		**35**	**525**	**300**		
I.1	**Enterprise and Innovation**		**4**	**60**			
	ENTR1022	Agile Innovation and Entrepreneurship	2	30		NA	P/F
	IDEA1010/11/12/X	Big Ideas: X (The IDEA1010/11/12 series, titled 'Big Ideas (X)' will have its course code and title defined each semester, allowing the course content to align with the key themes and innovative design concepts)	2	30		NA	L
I.2	**Leadership Mindset**		**2**	**30**			
	LEAD1031	Leadership and Team Building Boot Camp	2	30		NA	P/F
I.3	**Civic Responsibility**		**2**	**30**	**165**		
	VCOR1030	National Defense Education	0		165	NA	P/F
	LAW1010	Introduction to Law	2	30		NA	L
I.4	**Ethics**		**2**	**30**			
	Choose one out of the following courses						
	CAS2010	Applied Ethics	2	30		NA	L
	MANA3021	Business Ethics	2	30		NA	L
	NURS3240	Healthcare Ethics	2	30		NA	L
	TECH1010	Technology Ethics	2	30		NA	L
I.5	**Community Service Learning**		**0**		**45**		
	COSL1010	Community Service Learning	0		45	NA	P/F
I.6	**Working with the Brain**		**2**	**30**			
	THINK1010	Critical and Creative Thinking	2	30		NA	L
I.7	**Working with Technology**		**4**	**60**			
	CECS1040	Introduction to AI Literacy	2	30		NA	L
	Choose one out of the following courses						
	CECS1031	Computational Thinking	2	30		NA	L
	CECS1050	Introduction to Data Literacy	2	30		NA	L
	CHS1000	Introduction to Healthcare Informatics	2	30		NA	L
	NURS2222	HealthTech & Innovation	2	30		NA	L
I.8	**Working with Others**		**4**	**60**			
	ENGL1030	Academic and Professional Writing	2	30		NA	L
	Choose one out of the following courses						
	ENGL1040	Interpersonal and Multimedia Communication	2	30		NA	L
	MANA1011	Introduction to Managing Skills	2	30		NA	L

	CHS1020	Introduction to Healthcare Communication	2	30		NA	L
	FLC1010/11/12/X	Foreign Language and Culture (X) (The FLC1010/11/12 series, titled "Foreign Language and Culture (X)" will have its course code and title defined each semester, provides students with foundational skills in a foreign language, while introducing relevant cultural knowledge.)	2	30		NA	L
I.9	**Working with the Self**		**0**		**90**		
	VCOR1012A/B	OASIS (Orientation, Advising, Skills, Identity & Diversity and Spirit of Pay-it-Forward)	0		45	NA	P/F
	VCOR1021	Healthy Lifestyle 1	0		22.5	NA	P/F
	VCOR1022	Healthy Lifestyle 2	0		22.5	NA	P/F
I.10	**Internship**						
		Internship Refer to section III.2 for more details					
I.11	**Ideology Education**		**11**	**165**			
	HASS1010	Marxism-Leninism Philosophy	3	45		NA	L
	HASS1020	Marxism-Leninism Political Economy	2	30		NA	L
	HASS1030	Scientific Socialism	2	30		NA	L
	HASS1041	Ho Chi Minh Ideology	2	30		NA	L
	HASS1050	History of the Communist Party	2	30		NA	L
I.12	**Global Citizenship and Sustainability**		**2**	**30**			
	Choose one out of the following courses						
	HASS1070	Cross-Cultural Navigation	2	30		NA	L
	HASS1100	Introduction to International Relations	2	30		NA	L
	SUST1010	Humans and Environmental Intelligence	2	30		NA	L
	SUST1020	Social Science and Sustainability	2	30		NA	L
	GLOB 1010/11/12/X	Global Studies (X) (The GLOB 1010/11/12 series, titled 'Global Studies (X)' will have its course code and title defined each semester, allowing the course content to align with the key themes and changing global priorities)	2	30		NA	L
		UROP (Undergraduate Research Opportunity Program)/Independent Student Project. (*)The UROP course code will be assigned based on the respective College, allowing for discipline-specific research experiences	2			NA	L

		that align with the academic and research priorities of each College					
I.13	**Creative Arts**		**2**	**30**			
	Choose one out of the following courses						
	ARTS1030	Arts Appreciation and Application	2	30		NA	L
	PERF1010	Artistic Performance and Application	2	30		NA	L
	CHS1030	Application of the Arts for Therapy and Wellbeing	2	30		NA	L
I.14	**Global Experience**						
		Students are encouraged to explore short-term study abroad exchange opportunities, facilitated by the Global Exchange Office, to broaden their global understanding and academic experience through partnerships with international institutions	Optional & Non-credit			NA	
II	**PROFESSIONAL EDUCATION**		**73**	**1095**			
II.1	**College Core Requirement**		**13**	**195**			
	CAS1030	First Year Seminar	2	30		NA	L
	STAT1011	Statistics for Social Sciences	3	45		NA	L
	CAS1020	Global Perspectives	2	30		NA	L
	CAS2020	Logic and Scientific Method	2	30		NA	L
	CAS3010	Global Development and Sustainability	2	30		NA	L
	CAS3020	Digital Arts and Sciences	2	30		NA	L
II.2	**Major Core Requirement**		**27**	**405**			
	INTR1011	Introduction to Economics	3	45		NA	L
	ECON1010	Introduction to Microeconomics	3	45		INTR1011	L
	ECON2011	Basic Econometrics	3	45		STAT1011	L
	ECON2020	Introduction to Macroeconomics	3	45		INTR1011	L
	ECON2030	Quantitative Analysis and Forecasting	3	45		ECON2011	L
	ECON3010	Intermediate Microeconomics	3	45		ECON1010, STAT1011	L
	ECON3020	Machine Learning	3	45		STAT1011	L
	ECON3040	Big Data in Economics	3	45		STAT1011, ECON2011	L
	ECON3121	Artificial Intelligence and the Economy	3	45		INTR1011, STAT1011	L
II.3	**Area of Focus**		**15**	**225**			
	Students may choose one Area of Focus by completing **15 credits** from the approved course basket of that focus. Alternatively, students may follow the **Non-focus Pathway** by completing any approved **15 credits** from the listed major elective courses, subject to course availability and academic advising.						
Innovation Economics Focus							
	ECON3060	Development Economics	3	45		ECON1010, ECON2020, ECON2011	L

	ECON3090	Institutional Economics	3	45		ECON1010 ECON2011,	L
	ECON3100	Innovation System for Science and Technology	3	45		ECON1010, ECON2020,	L
	ECON3111	Public Policy	3	45		ECON1010, ECON2020,	L
	ECON4011	Making The Modern World: The Industrial Revolution in Global Perspective	3	45		ECON1010, ECON2020,	L
	ECON4040	Finance and Society	3	45		ECON1010, ECON2020	L
	ECON4050	Competitive Strategy and Industrial Organization	3	45		ECON1010, ECON2020 ECON3010	L
	ECON4061	Financial Crisis	3	45		ECON1010, ECON2020	L
Strategy and Market Analysis Focus							
	ECON3031	Economic Applications of Game Theory	3	45		ECON1010, ECON2020, ECON3010	L
	ECON3050	Behavioral Economics	3	45		ECON1010	L
	ECON3060	Development Economics	3	45		ECON1010, ECON2020, ECON2011	L
	ECON3090	Institutional Economics	3	45		ECON1010, ECON2020	L
	ECON3111	Public Policy	3	45		ECON1010, ECON2020	L
	ECON3130	International Economics	3	45		ECON1010, ECON2020	L
	ECON4011	Making The Modern World: The Industrial Revolution in Global Perspective	3	45		ECON1010, ECON2020	L
	ECON4020	Real Estate Economics	3	45		ECON1010	L
	ECON4040	Finance and Society	3	45		ECON1010, ECON2020	L
	ECON4050	Competitive Strategy and Industrial Organization	3	45		ECON1010, ECON2020, ECON3010	L
	ECON4061	Financial Crisis	3	45		ECON1010, ECON2020	L
Development Economics and Public Policy Focus							
	ECON3060	Development Economics	3	45		ECON1010, ECON2020, ECON2011	L
	ECON3090	Institutional Economics	3	45		ECON1010, ECON2020	L
	ECON3111	Public Policy	3	45		ECON1010, ECON2020	L
	ECON3130	International Economics	3	45		ECON1010, ECON2020	L

	ECON4011	Making The Modern World: The Industrial Revolution in Global Perspective	3	45		ECON1010, ECON2020	L
	ECON4040	Finance and Society	3	45		ECON1010, ECON2020	L
	ECON4061	Financial Crisis	3	45		ECON1010, ECON2020	L
II.4	**Electives**		**18**	**270**			
		Students take 18 credits of free electives from within the program or from any other program (at VinUniversity or accredited partner institutions), of which at least 14 need to provide a letter grade.	18	270			
III	**PRACTICE / INTERNSHIP**		**6**		**320**		
	Students to choose from the Internship Pool to accumulate 6 credits in total						
	ECON 4870	Internship Orientation			5		P/F
	ECON 4871	Internship	6			ECON 4870	
IV	**GRADUATION CAPSTONE**		**6**		**320**		
	ECON4890	Capstone Project	6		320		
	TOTAL **Accumulate at least**		**120** **(135*)**				

3.3 Standard Study Plan

Year 1 – Semester 1:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	HASS1010	Marxism-Leninism Philosophy	Triết Học Mác-Lênin	3
2	HASS1020	Marxism-Leninism Political Economy	Kinh tế Chính trị Mác-Lênin	2
3	ENGL1030	Academic and Professional Writing	Kỹ năng viết học thuật	2
4	VCOR1021	Healthy Lifestyle 1	Lối sống Khoẻ Mạnh 1	22.5 hours
5	ENTR1022	Agile Innovation and Entrepreneurship	Khởi nghiệp và Đổi mới sáng tạo	2
6	VCOR1012A/B	OASIS (Orientation, Advising, Skills, Identity & Diversity and Spirit of Pay-it-Forward)	OASIS (Đinh hướng, Tư vấn, Kỹ năng, Bản sắc & Đa dạng, Tinh thần cho đi)	45 hours
7	COSL1010	Community Service Learning	Học tập qua phục vụ cộng đồng	45 hours
8	IDEA1010/11/12	Big Ideas	Ý tưởng lớn	2
9	CAS1030	First Year Seminar	Chuyên đề năm nhất	2
10		Elective	Môn học tự chọn	3
Total				**16**

Year 1 – Semester 2:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	LEAD1031	Leadership and Teambuilding Boot Camp	Trại huấn luyện kỹ năng lãnh đạo và làm việc nhóm	2

2	HASS1070/ HASS1100	Cross Cultural Navigation/Introduction to International Relations	Định hướng liên văn hoá/ Nhập Môn Quan hệ quốc tế	2
3	HASS1030	Scientific Socialism	Chủ Nghĩa Xã hội khoa học	2
4	HASS1041	Ho Chi Minh Ideology	Tư tưởng Hồ Chí Minh	2
5	VCOR1022	Healthy Lifestyle 2	Lối sống lành mạnh 2	22.5 hours
6	VCOR1012A/B	OASIS (Orientation, Advising, Skills, Identity & Diversity and Spirit of Pay-it-Forward)	OASIS (Đinh hướng, Tư vấn, Kỹ năng, Bản sắc & Đa dạng, Tinh thần cho đi)	45 hours
7	CAS1020	Global Perspectives	Quan điểm toàn cầu	2
8	INTR1011	Introduction to Economics	Kinh tế học đại cương	3
9	STAT1011	Statistics for Social Sciences	Thống kê trong khoa học xã hội	3
10	VCOR1030	National Defense Education	Giáo dục Quốc phòng và An ninh	165 hours
Total				**16**

Year 2 – Semester 1:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	THINK1010	Critical and Creative Thinking	Tư duy sáng tạo và Phản biện	2
2	HASS1050	History of the Communist Party	Lịch sử Đảng Cộng Sản Việt Nam	2
3	ARTS1030\ PERF1010	Arts Appreciation and Application / Artistic Performance and Application	Thưởng thức và thực hành nghệ thuật/ Biểu diễn và Thực hành Nghệ thuật	2
4	CAS2010/MANA3021/ NURS3240/TECH1010	Applied Ethics/Business Ethics/Healthcare Ethics/Technology Ethics	Đạo Đức trong thực tiễn/ Đạo đức trong kinh doanh/ Đạo đức trong chăm sóc sức khỏe/ Đạo đức trong công nghệ	2

5	CECS1031/CECS1050/ CHS1000	Computational Thinking/Introduction to Data Literacy/Introduction to Healthcare Informatics	Tư duy Máy tính/ Nhập môn Hiểu biết về dữ liệu/ Nhập môn về tin học trong y tế	2
6	ECON1010	Introduction to Microeconomics	Nhập môn Kinh tế vi mô	3
7	ECON2011	Basic Econometrics	Kinh tế lượng cơ bản	3
Total				**16**

Year 2 – Semester 2:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	CECS1040	Introduction to AI Literacy	Nhập Môn hiểu biết về AI	2
2	COSL1010	Community Service Learning	Học tập qua phục vụ cộng đồng	0
3	LAW1010	Introduction to Law	Pháp luật đại cương	2
4	CAS2020	Logic and Scientific Method	Tư duy logic và Phương pháp luận khoa học	2
5	ECON2020	Introduction to Macroeconomics	Nhập môn Kinh tế vĩ mô	3
6	ECON2030	Quantitative Analysis and Forecasting	Phân tích Định lượng và Dự báo	3
7	ECON3010	Intermediate Microeconomics	Kinh tế Vi mô trung cấp	3
Total				**15**

Year 3 – Semester 1:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	CAS3010	Global Development and Sustainability	Phát triển toàn cầu và Sự bền vững	2

2	CHS1020/ENGL1040/ MANA1011	Introduction to Healthcare Communication/Interpersonal and Multimedia Communication/Introduction to Managing Skills	Nhập môn Giao tiếp trong chăm sóc sức khỏe /Giao tiếp Cá nhân và Đa phương tiện truyền thông/ Nhập môn kỹ năng quản lý	2
3	ECON3020	Machine Learning	Học máy	3
4	ECON3040	Big Data in Economics	Dữ liệu lớn trong kinh tế học	3
5	ECON3121	Artificial Intelligence and the Economy	Trí tuệ nhân tạo và nền kinh tế	3
6		Elective	Môn học tự chọn	3
Total				**16**

Year 3 – Semester 2:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	CAS3020	Digital Arts and Sciences	Nghệ thuật và khoa học số	2
2		Major elective	Môn chuyên ngành tự chọn	3
3		Major elective	Môn chuyên ngành tự chọn	3
4		Major elective	Môn chuyên ngành tự chọn	3
5		Elective	Môn học tự chọn	3
Total				**14**

Year 4 – Semester 1:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1		Major elective	Môn chuyên ngành tự chọn	3
2		Major elective	Môn chuyên ngành tự chọn	3
3		Elective	Môn học tự chọn	3

4		Elective	Môn học tự chọn	3
5		Elective	Môn học tự chọn	3
Total				**15**

Year 4 – Semester 2:

No	Course Code	Course name (English)	Course name (Vietnamese)	Credits
1	ECON 4870 / ECON 4871	Internship	Thực tập	6
2	ECON 4890	Graduation Capstone	Đồ án tốt nghiệp	6
Total				**12**

3.4 Course Descriptions

3.6.1 VINCORE Courses

ENTR1022 Agile Innovation and Entrepreneurship
Credit: 2

On successful completion of this course, students will be able to:

Explain how an entrepreneurial mindset supports and accelerates innovation and growth in the contexts of businesses, industries, and countries.

Evaluate the multifaceted nature of entrepreneurship in Vietnam and internationally, and how it impacts the economy, society, and environment. Gain access to insights on VinGroup's governance principles (the 6 Hóa).

Recommend strategies to evaluate the entrepreneurial mindset, values, and behaviors, and to further develop the entrepreneurial mindset, both individually and organizationally.

Grow your own entrepreneurial mindset and innovation-related skills, including identifying and evaluating opportunities, taking calculated risks, solving problems creatively, communicating effectively, and influencing stakeholder groups.

Demonstrate the ability to work productively in teams to collaboratively explore opportunities, generate ideas, and find and communicate solutions to a predefined challenge during the course hackathon.

IDEA1010/11/12 Series: Big Ideas (X)
Credit: 2

On successful completion of this course, students will be able to:

Describe and explain a “big idea”, which may be a new solution to a problem, a disruptive technology, or an innovative method or way of doing things

Identify the implications of a big idea for everyday life or a professional setting

Develop a strategy for using a big idea to improve an existing approach or create a new application

Evaluate the application of a big idea, including an assessment of its positive impacts, negative impacts, and mitigating strategies for the theme of the year

LEAD1031 Leadership and Team Building Bootcamp
Credit: 2

On successful completion of this course, students will be able to:

Define foundational concepts of leadership traits, leadership styles, values, and trends, and their applications to real-life situations, especially in a turbulent world.

Describe and evaluate the differences and similarities between management and leadership, and their application in an organizational setting.

Evaluate the multifaceted nature of leadership in Vietnam and internationally, and their impact on work environments, particularly in a VUCA context. Gain access to insights on Vingroup's mission, vision, and core values.

Develop your own leadership mindset by setting a vision, developing self-awareness, understanding others' perspectives, understanding situational contexts, communicating effectively, and making informed decisions. Setting a vision, accepting accountability, understanding self and others' limits, inspiring and motivating others, and creating the collaborative conditions for success

Apply basic leadership values and skills through action-based learning, building self, interpersonal, and team leadership during the leadership bootcamp.

VCOR1030 National Defense Education

Credit: 165 Hours

On successful completion of this course, students will be able to:

Understand and articulate knowledge of the National Defense and Security policies of the Communist Party of Vietnam.

Understand basic concepts of national defense and security work.

Understand and practice the fundamental rules and disciplinary regulations in military organization.

Practice the fundamental techniques and tactics of infantry combat

LAW1010 Introduction to Law

Credit: 2

On successful completion of this course, students will be able to:

Explain the history, contemporary nature, and purpose of the Vietnamese legal system, including its key institutions, doctrines, and principles.

Describe and evaluate key differences and similarities between legal system management in Vietnam and internationally.

Understand the mechanisms of legal duty, justification of punishment, and the roles of courts and juries.

Apply fundamental legal rules and principles in a wide range of selected areas of the law, demonstrating critical thinking and ethical considerations.

Develop a mindset of compliance and appreciate the importance of adhering to legal standards in professional and personal contexts

CAS2010 Applied Ethics

Credit: 2

On successful completion of this course, students will be able to:

Identify and explain a range of ethical concerns across different professional and real-world domains of human interaction.

Apply ethical theories and offer rational justification to moral dilemmas.

Understand the moral stakeholders involved and the ethical obligations required for certain professional standards/codes, as well as the rationale behind them.

Apply ethical theories and offer rational justification to moral dilemmas where no professional standards/codes are established

MANA3021 Business Ethics
Credit: 2
On successful completion of this course, students will be able to:
Understand and explain the relevance of values applied to business, such as integrity, accountability, transparency, respect for stakeholders, corporate social responsibility (CSR), fairness, and compliance)
Identify business practices that produce unethical behavior or harm to the individual, society, or environment
Apply relevant ethical theories to moral dilemmas in the context of business
Evaluate different responses to ethical practice in business and justify an opinion based on ethical theory

NURS3240 Healthcare Ethics
Credit: 2
On successful completion of this course, students will be able to:
Understand and explain the relevance of principles and values applied to healthcare, medical research, and health policy, covering topics such as respect for patients, beneficence and non-maleficence, justice, and honesty and transparency)
Identify medical practices that produce unethical behavior or harm to patients, the profession, society, or the environment
Apply relevant ethical theories to moral dilemmas in the context of medical treatment
Evaluate different responses to ethical practice in medicine and justify an opinion based on ethical theory
Understand the influence of religious ethics in patient treatment and decision-making

TECH1010 Technology Ethics
Credit: 2
On successful completion of this course, students will be able to:
Understand and explain the principles and values applied to technology, including privacy and data protection, algorithmic fairness and bias, digital inclusion, accountability and transparency, sustainability, and ethical AI and machine learning)
Identify uses of technology that produce unethical behavior or harm to users, society, or the environment
Apply relevant ethical theories to moral dilemmas involving technology
Evaluate different responses to ethical practice in technologies and justify an opinion based on ethical theory

COSL1010 Community Service Learning
Credit: 45 Hours
On successful completion of this course, students will be able to:
Define and understand the essential components of service learning, including benefits, impact, and key attributes.
Critically reflect on social issues and UNESCO's sustainable development goals (SDGs) with
reference to a planned service project
Plan and implement a service project in accordance with local laws and regulations
Reflect on the outcomes of that service project and how it could have been improved

Develop sensitivity and empathy to local community members

THINK1010 Critical and Creative Thinking
Credit: 2
On successful completion of this course, students will be able to:
Appreciate the purpose and importance of creative and critical thinking.
Identify, develop, and criticize claims and arguments in accordance with principles of logical reasoning and scientific evidence
Apply creative and critical thinking with supporting tools and techniques for problem-solving.
Embed creative and critical thinking in workplace idea generation.
Build foundations for enhancing individual and team effectiveness.

CECS1040 Introduction to AI Literacy
Credit: 2
On successful completion of this course, students will be able to:
Understand basic AI principles, including machine learning and neural networks.
Use AI tools like ChatGPT for work and study tasks.
Recognize ethical implications, such as data privacy and algorithmic bias.
Apply AI to improve efficiency and innovation in academic and professional settings.
Design and evaluate user interfaces for better human-AI interaction

CECS1031 Computational Thinking
Credit: 2
On successful completion of this course, students will be able to:
Identify and analyze problems from life and business in order to determine computational solutions.
Break down problems into logical steps and data requirements.
Use basic data structures and algorithms for problem-solving.
Design simple algorithms and computational models.
Implement solutions using basic programming skills.
Evaluate and optimize computational solutions.

CECS1050 Introduction to Data Literacy
Credit: 2
On successful completion of this course, students will be able to:
Read, understand, create, and communicate data as information.
Analyze and visualize data using tools like Excel and Python.
Understand the importance of data in business strategy and apply data-driven insights for decision-making.
Develop skills to improve data collection designs and ensure data quality.
Utilize statistical methods and probability to interpret, present and effectively tell stories about data.

CHS1000 Introduction to Healthcare Informaticsss

Credit: 2

Information technology (IT) has been integrated in nearly every aspect of modern life through automating tasks and procedures, especially with the introduction of artificial intelligence. However, developing and maintaining an effective information system is not a simple process and requires thorough consideration. Healthcare is a particularly complex setting that requires extensive considerations when designing its IT system. This course introduces IT concepts and guides students through the thinking process of developing an information system for healthcare, especially the electronic health records. Students will look at the grand problem of information systems from various perspectives, including technology, healthcare, research, cost, and leadership. This course is suitable for both health sciences students and other students who are interested in IT or want to work in healthcare settings in the future.

By the end of the course students will be able to:

1. Analyze the needs and problems that can be addressed through information systems.
2. Analyze the stakeholders and challenges associated with integrating information technology in the healthcare setting.
3. Select a solution using various information technologies, including artificial intelligence, to solve a real-life problem in healthcare.
4. Determine the strengths and weaknesses of an IT solution, in terms of data standards (e.g., interoperability, security, privacy) and feasibility (e.g., scalability, costs).

ENGL1030 Academic and Professional Writing

Credit: 2

On successful completion of this unit, students will be able to:

Identify and explain core attitudes, values, and practices of academic culture and how academic writing reflects these.

Reflect critically on the differences between academic and opinion writing and apply this understanding in the composition of academic essays, including referencing, quoting, and paraphrasing.

Evaluate the differences between academic and professional writing in terms of style, purpose, target audience, and techniques.

Develop your clear, concise, and well-structured writing skills, focusing on the most critical documents and situations in academic and professional work such as academic essays, newspaper articles, business reports, proposals, speeches...

Use AI to develop, enhance, and revise writing in both academic and professional contexts.

ENGL1040 Interpersonal and Multimedia Communication

Credit: 2

On successful completion of this course, students will be able to:

Identify and explain the fundamental concepts, scope, and diversity of oral and visual communication.

Identify communication expectations based on an understanding of different professional audiences and contexts and apply this knowledge in delivering communication.
Demonstrate responsible, ethical, and respectful attitudes as the field undergoes disruptive changes fueled by rapid technological advancements.
Develop your own oral communication skills in key situations, from speeches to conversation, discussion, and giving feedback.
Grow your skills in developing digital content for multimedia, including presentations, pitches, blog posts, viral videos, podcasts, and basic media management.

MANA1011 Introduction to Managing Skills
Credit: 2
On successful completion of the course, students will be able to:
Apply the SMART technique to define specific, measurable, achievable, relevant, and time-bound goals, ensuring clarity and focus on their objectives.
Develop skills to effectively organize tasks and prioritize them based on importance and urgency, facilitating efficient and systematic progress towards achieving objectives.
Understand how to assign tasks based on team members' individual strengths, skills, and expertise, ensuring optimal use of resources and enhancing team performance.
Learn to create and manage project schedules, monitor progress, and employ motivational techniques to keep team members engaged and productive, overcoming challenges and maintaining momentum.
Acquire the ability to give professional, accurate, and timely feedback, fostering a positive energy and environment within the team.

CHS1020 Introduction to Healthcare Communication
Credit: 2
Demonstrate active listening and verbal and non-verbal communication techniques to enhance professional interactions
Establish trust and rapport demonstrating empathy, respect and professionalism
Identify potential communication challenges such as cultural differences, language and physical barriers and emotional distress
Communicate effectively and be able to receive and give feedback to team members
Reflect on the importance of confidentiality, sensitivity, and respect in all forms of healthcare communication

VCOR1012A/B - OASIS
Credit: 45 Hours
On successful completion of this course, students will be able to:
Cultivate self-leadership, enhancing self-confidence, self-esteem, self-determination, and self-control.
Self- acquire and apply college readiness skills, life-long learning, effectively adapting to academic, social, and personal challenges of university life
Self- develop essential career skills, preparing for personal and professional success.

Embrace community involvement by actively participating in community service, demonstrating a commitment to positive societal impact and a pay-it-forward spirit.
Regularly reflect on personal growth and practice self-leadership throughout your university life, from the initial enrollment CV to the Individual Development Plan (IDP) and the pre- graduation CV, ensuring ongoing development and readiness for life after graduation.

VCOR1021/22 Healthy Lifestyle 1,2
Credit: 45 Hours
On successful completion of this course, students will be able to:
Understand the important principles of a healthy lifestyle, including balanced nutrition, regular physical activity, and mental well-being.
Understand your own health and develop your own personal health strategies, including techniques for managing stress effectively and maintaining a balanced life.
Engage in self-discipline for nutrition, exercise, and rest, and actively participate in various physical and mental well-being clubs at the university.
Recognize the impact of lifestyle choices on long-term health and well-being and make informed decisions to enhance your quality of life.
Be motivated to promote well-being within communities through various means such as research, awareness campaigns, and participation in health clubs.

HASS1010 Marxism Leninism Philosophy
Credit: 3
This course introduces the fundamental concepts and principles of Marxist-Leninist philosophy as a system of scientific and revolutionary thought developed by Karl Marx and Friedrich Engels and later advanced by V.I. Lenin. It provides students with a dialectical materialist worldview and methodological framework for understanding nature, society, and human cognition.
The course is organized into three main parts. Part 1 introduces philosophy, the foundations of Marxist-Leninist philosophy, and its role in social life. Part 2 examines the core principles of dialectical materialism, including the relationship between matter and consciousness, the laws and categories of dialectics, and the theory of cognition. Part 3 explores key concepts of historical materialism, including socio-economic formations, class and nation, the state and social revolution, social consciousness, and the philosophical conception of human beings.

HASS1020 Marxism-Leninism Political Economy
Credit: 2
This course provides students with foundational knowledge and a systematic understanding of Marxist-Leninist political economy. It examines key economic principles and their application in Vietnam's development policies, particularly during the Renovation (Đổi Mới) period and the process of international integration.

Students explore the operation of the market economy, the nature of economic relations in modern society, and the characteristics of Vietnam's socialist-oriented market economy. The course also addresses contemporary socio-economic challenges arising from globalization and digital transformation.

Through analysis and discussion, students develop economic reasoning, critical thinking, and the ability to evaluate socio-economic issues, while strengthening their awareness of civic responsibility and sustainable national development.

HASS1030 Scientific Socialism

Credit: 2

This course introduces the foundations, development, research scope, methods, and significance of Scientific Socialism. It then examines its major theoretical themes, including the historical mission of the working class; socialism and the transition to socialism; socialist democracy and the socialist state; social-class structure and class alliances; ethnicity and religion; and family issues during the transitional period to socialism.

For each major topic, students also explore its contemporary relevance in Vietnam, including current conditions and the orientations and viewpoints of the Communist Party of Vietnam.

In addition, the course provides an overview of politics and social change in Vietnam, major political developments in the world, and key issues in international relations from the twentieth century to the present.

HASS1041 Ho Chi Minh Ideology

Credit: 2

The course equips students with foundational knowledge of Ho Chi Minh Thought, including the basis of its formation, the process of its development, the system of fundamental viewpoints, and the theoretical and practical values of Ho Chi Minh Thought in the Vietnamese revolutionary cause.

Through the course, students clearly understand the role of Ho Chi Minh Thought in the cause of the struggle for national independence, the building and defense of the Fatherland, while developing the capacity to apply the core values of Ho Chi Minh Thought to learning, research, professional activities, and the resolution of practical problems in the context of international integration and sustainable development.

HASS1050 History of the Communist Party

Credit: 2

The course provides students with an understanding of the object of study, objectives, tasks, research methods, and learning methods of the subject History of the Communist Party of Vietnam.

The course equips students with basic, core, and systematic knowledge of:

- The founding of the Party (1920–1930);
- The process of the Party leading the struggle for power (1930–1945);
- The leadership of the Party in the two wars of resistance against French colonialism and American imperialism, leading to national liberation and the reunification of the country (1945–1975);

• The leadership of the Party in the process of the entire country advancing toward socialism and implementing the Đổi Mới (Renovation) process (1975–2018).

Through this, the course clarifies the achievements of the Party, points out limitations, and summarizes the lessons of experience drawn from the Party's leadership of the revolution. The course aims to help learners consolidate their awareness and confidence in the Party, develop the ability to apply the knowledge acquired to practice, and contribute to the cause of building and defending the Socialist Republic of Vietnam.

HASS1070 Cross-Cultural Navigation

Credit: 2

On successful completion of this course, students will be able to:

Understand the ways in which individual identities, values, and perceptions and biases are shaped by cultures and different forms of life

Know the theories and practices related to the impact of culture in our daily ecologies in local and global contexts

Identify and understand the intersection of one's own and others' cultural identities

Apply knowledge of practice, theory, and personal reflection of different cultures to a particular issue that requires collaboration or cooperation between individuals or groups from different cultural backgrounds

HASS1100 Introduction to International Relations

Credit: 2

On successful completion of this course, students will be able to:

Know the main actors, structures, and processes of international relations

Understand the basic theoretical principles of international relations and compare the competing underlying frameworks on human and social nature

Identify the respective objectives of international organizations in international politics, collaboration, and cooperation

Explore a case study, problem-solving scenario or dilemma involving international relations and devise a strategy/solution supported by theory and solid argumentation

Critically assess alternative strategies and points of view on complex scenarios requiring international relations

ARTS1030 Art Appreciation and Application

Credit: 2

On successful completion of this course, students will be able to:

Demonstrate an understanding and appreciation of arts and visual arts in general, including their function, and historical, religious, cultural, social, and environmental contexts and relevance;

Understand and define the basic principles of arts, visual arts, and design; explain and analyze a work of art from an informed and objective viewpoint, its physical attributes and formal construction;

Identify how art works are created and processed;

Make a reference to the significance and application of the arts in students' own field of studies and interests;
Analyze Vietnam arts and situate Vietnamese arts in the global context.

PERF1010 Artistic Performance and Application
Credits: 2
On successful completion of this course, students will be able to:
Show improved skill in their chosen artistic field (e.g., music, dance, theatre, visual arts) and express their creativity and individuality through performance(s).
Evaluate and discuss different forms of artistic performance, identifying key elements and techniques, and write reflective assessments on their personal artistic development.
Work well with peers to create and perform artistic pieces and effectively give and receive constructive feedback.
Clearly communicate the artistic vision and choices behind their performances both verbally and in writing (if required) and develop their skills in presenting artistic work to an audience, including stage presence and audience engagement.
Explore and appreciate a variety of artistic traditions from around the world, with a special focus on Vietnamese culture, and place their own artistic work in a wider cultural and historical context.
Plan, organize, and complete an artistic performance project from start to finish, demonstrating good time management and organizational skills.
Understand and apply ethical considerations in artistic performance, including respecting intellectual property and cultural sensitivities, and behave professionally during rehearsals, performances, and collaborative projects.

CHS1030 Application of the Arts for Therapy and Wellbeing
Credit: 2
1. Explain how the arts and humanities contribute to therapeutic practices and well-being across personal, professional, and community contexts
2. Describe the diverse forms of artistic expression and how their therapeutic potential could support emotional, mental, and physical health
3. Reflect on personal and professional impact of creative engagement on emotional awareness and self-care
4. Apply creative techniques to develop activities aimed at enhancing emotional intelligence and empathy, reducing stress, and promoting mindfulness

FLC1010/11/12/... Series: Foreign Language and Culture (X)
Credit: 2
This course introduces a selected foreign language and its associated cultural context, with an emphasis on foundational language proficiency and intercultural competence. Students develop basic communicative skills through structured language learning activities while examining key cultural dimensions, including customs, traditions, values, and social practices. The

course aims to establish a foundation for effective and culturally appropriate communication and to enhance students' awareness of cultural diversity in global contexts.

NURS2222 HealthTech & Innovation
Credit: 2
HealthTech & Innovations is a multi-disciplinary field at the intersection of information science, computer science, and health care. It introduces fundamental characteristics of data, information, and knowledge in the domain, common algorithms for health applications, and IT components in representative clinical processes. It also introduces the conceptual framework for handling the collection, storage, and optimal use of biomedical data. It introduces the concepts of population health and precision healthcare and the information systems that support them. It covers basic principles of knowledge management systems in biomedicine, various aspects of Health Information Technology standards, and IT aspects of clinical process modeling. There is also a term project to access students' ability to understand and implement simple Health Informatics solutions.

GLOB 1010/11/12/... Series: Global Studies (X)
Credit: 2
On successful completion of a course within the Global Studies block, students will be able to:
1. Describe and explain a significant global or regional issue, system, or tradition and the contexts that shape it.
2. Analyze how issues connect at local, regional, and global scales.
3. Compare multiple perspectives on local and global issues, including those of different societies, communities, or stakeholders, and account for the differences between them.
4. Evaluate the implications of local and global issues for the long-term sustainability of societies, economies, or environments, including possible responses and their trade-offs.

The specific course learning outcomes will be updated in each Global Studies course syllabus.

3.6.2 BAE Core Courses

CAS1030: First Year Seminar
Credit: 2
Communicate effectively in both written and oral forms, using the conventions and rhetorical strategies commonly employed in the humanities and social sciences.
Collaborate productively in group settings, demonstrating the interpersonal and analytical skills essential for academic inquiry

Apply foundational research methods, including locating, evaluating, and integrating scholarly sources relevant to topics in the humanities and social sciences.
Construct well-reasoned arguments, drawing on evidence and theoretical perspectives
Analyze and interpret texts, data, and cultural artifacts, demonstrating critical thinking skills and an understanding of diverse approaches used in the humanities and social sciences.
Reflect on their own academic development, identifying strengths and areas for improvement in relation to the skills and habits of mind valued in higher education

STAT1011 – Statistics for Social Sciences
Credit: 3
This course introduces the fundamental concepts and techniques of statistical analysis. The focus is on developing skills in descriptive and inferential statistics, including data collection and analysis, probability theory, hypothesis testing, and regression analysis. Students will also learn how to use statistical software to perform data analysis.

CAS1020 – Global Perspectives
Credit: 2
This course exposes and engages students with a variety of different global perspectives on important issues of the day. Each week the seminar will be led by a different faculty member or guest speaker who will choose a topic, assign pre-class reading, and organize the class activities. Potential contemporary issues include ChatGPT and AI, the ageing crisis, immigration, globalization, the new space race, Industry 4.0, etc.

CAS2020 – Logic and Scientific Method
Credit: 2
This course introduces students to more advanced topics in reasoning, logic, and the topics of evidence and testing in science. In deductive reasoning, students advance in topics in critical thinking to include first-order predicate calculus and modal logic. In statistical reasoning, students learn the axioms of probability theory, Bayesian confirmation theory and issues in the confirmation of scientific theories, including advanced topics from the Hypothetical-Deductive Method and Falsificationism.

CAS3010 – Global Development and Sustainability
Credit: 2
This course introduces and elaborates on the concept of development and the role of sustainability. The course would engage ideas of development from an interdisciplinary and multi-dimensional perspective. The course content aims to answer questions such as: what is development? How does development happen? What contributes to development? Why do the development stories differ at the country, regional, and global levels? Besides the theoretical explanation of development, practical insights would be provided via real-world exposure, case studies, contemporary reading material, and capstone projects. The course would

focus on the interaction and interrelationship between environment and development by exploring the role of sustainability.

CAS3020 – Digital Arts and Sciences
Credit: 2
As more information becomes digitized, researchers can use powerful AI tools to better analyze that data and visualize it for communication. This course introduces students to the main advances in digital humanities, how to code for basic research and scholarship with an eye to potential application in the areas: communications, psychology and economics.

INTR1011 – Introduction to Economics
Credits: 3
This course introduces economics by asking big questions: why do living standards differ so much across the world? What are the implications of economic growth? Why do we face challenges such as climate change, inequality, and unemployment and what can be done about them? To answer these, the course explores how individual choices (microeconomics) connect to society-wide outcomes and interventions (macroeconomics), introducing key economic concepts and tools. Throughout the course, students will consider when markets work well, when markets fail, and explore the role of government policy in addressing these challenges. Using real-world data, including examples from Vietnam, students will learn to apply basic economic models and tools to analyse issues, evaluate policies, and communicate findings.

ECON1010 – Introduction to Microeconomics
Credits: 3
This course explores the fundamentals of microeconomics. It analyzes individual economic agents, firms, and markets, focusing on supply and demand, consumer behavior, production, costs, market structures, and government intervention. Through theoretical concepts and real-world examples, it develops critical thinking skills applicable to economic decision-making. Ideal for business majors and those seeking a foundational understanding of microeconomic principles.

ECON2011 – Basic Econometrics
Credits: **3**
This course introduces students to the fundamentals of econometric analysis, providing tools for empirical data analysis in economics and business. The course covers basic regression analysis, diagnostics, and several advanced econometric methods. Practical application of these concepts will be emphasized throughout the course using R software. Real-world data analysis will form the basis of in-class applications, computer practicums, and assignments, so students are expected to come to class with R installed on laptops, ready to use.
The course aims to empower students with the skills needed to critically evaluate and contribute to empirical research in economics, business, and other social sciences.

ECON2020 – Introduction to Macroeconomics
Credits: 3
This course embarks on an exploration of macroeconomics. It focuses on the study of aggregate economic phenomena, including national income, unemployment, inflation, and economic growth. It analyzes the role of government policy, monetary systems, and international trade in shaping the overall economic landscape. Through a mix of theory and real-world applications, it develops a solid understanding of the macroeconomic forces that influence societies and impact decision-making at a national level. Ideal for students interested in economics, business, or anyone seeking a foundational grasp of macroeconomic principles.

ECON2030 – Quantitative Analysis and Forecasting
Credits: 3
The Quantitative Analysis and Forecasting course offers students a comprehensive exploration of statistical methods tailored for time series analysis. In this undergraduate-level offering, participants will learn about modeling and forecasting economic trends, financial data, and various time-dependent phenomena.
The curriculum covers essential topics such as time series decomposition, autoregressive integrated moving average (ARIMA) models, and advanced forecasting techniques. Through a combination of theoretical concepts and practical applications using statistical software, students will develop proficiency in analyzing time series data and making informed predictions.
Ideal for students with an interest in economics, finance, or data science, this course equips participants with the skills necessary to interpret and forecast trends, enhancing their ability to contribute valuable insights in various professional domains.

ECON3010 – Intermediate Microeconomics
Credits: 3
The Intermediate Microeconomics course is designed for students who have a foundational understanding of microeconomic principles and are ready to explore more advanced concepts. Building upon the basics, this undergraduate-level course delves deeper into the analysis of individual economic agents, firms, and markets. The course emphasizes the application of theoretical frameworks to real-world scenarios, honing analytical skills crucial for assessing market dynamics and policy implications. Course content includes core topics of consumption, production, and decision-making by firms, both with and without market power, under perfect and imperfect information, as well as the analysis of market failure due to externalities and public goods.
Through a combination of lectures, case studies, and interactive discussions, students will develop a more sophisticated understanding of microeconomic concepts and their implications. This course is ideal for economics majors or those pursuing fields that require a deep understanding of microeconomic theory and its applications in diverse settings.

ECON3020 – Machine Learning
Credits: 3
In this course, students will learn popular machine learning algorithms, principal component analysis, and regularization by building a movie recommendation system. The student will learn about training data and how to use a set of data to discover potentially predictive relationships. In building the movie recommendation system, the student will learn how to train algorithms using training data so you can predict the outcome for future datasets. The student will also learn about overtraining and techniques to avoid it, such as cross-validation. All of these skills are fundamental to machine learning.

ECON3040 – Big Data in Economics
Credits: 3
This course illustrates the transformative power of "big data" in comprehending and tackling critical societal and economic challenges. It serves as an accessible introduction to cutting-edge research and practical applications in economics and social science, tailored for students without prior experience in Economics or Statistics. Whether you're new to Economics or have a more advanced background, this course covers diverse topics such as equality of opportunity, education, innovation, entrepreneurship, healthcare, climate change, and crime. In addition to exploring these themes, the course provides a foundational understanding of fundamental data science methods, including regression, causal inference, and machine learning.

ECON3121 – Artificial Intelligence and the Economy
Credits: 3
This course examines how artificial intelligence (AI) is reshaping economies and societies, drawing on current empirical and theoretical research. Students will explore the effects of AI on labor markets, productivity, inequality, and the structure of firms and industries, alongside broader social consequences such as algorithmic decision-making. The course engages active debates in the field — including evidence on job displacement and creation, the measurement of AI's macroeconomic impact, and the policy and regulatory responses to these changes demand.

3.6.3 BAE Major Electives

ECON3060 – Development Economics
Credits: 3
The Development Economics course explores the foundations of policy making in developing countries. The goal is to spell out various policy options and to quantify the trade-offs between them. We will study the different facets of human development: education, health, gender, the family, land relations, risk, informal and formal norms and institutions. This is an empirical class. For each topic, we will study several concrete examples chosen from around the world. While studying each of these topics, we will ask: What determines the decisions of poor households in

developing countries? What constraints are they subject to? Is there scope for policy (by government, international organizations, or non-governmental organizations (NGOs))? What policies have been tried out? Have they been successful?

ECON3100 – Innovation System for Science and Technology
Credits: 3

This course focuses on science and technology policy—it will examine the science and technology innovation system, including case studies on energy, computing, advanced manufacturing, and health sectors, with an emphasis on public policy and the federal government's role in that system. It will review the foundations of economic growth theory, innovation systems theory and innovation organization, and the basic approaches to science and technology policy, building toward a sophisticated understanding of these areas. The class will review a theory of direct and indirect economic factors in the innovation system, study the varied models for how federal science and technology mission agencies are organized, and examine the growth of public-private partnership models as a way for science mission agencies to pursue mission agendas.

ECON4011 – Making the Modern World: The Industrial Revolution in Global Perspective
Credits: 3

This course is a global survey of the great transformation in history known as the "Industrial Revolution." Topics include origins of mechanized production, the factory system, steam propulsion, electrification, mass communications, mass production and automation. Emphasis on the transfer of technology and its many adaptations around the world. Countries treated include Great Britain, France, Germany, United States, Sweden, Russia, Japan, China, and India.

ECON4050 – Competitive Strategy and Industrial Organization
Credits: 3

The Competitive Strategy and Industrial Organisation covers the foundations of the field of industrial organization, including the theory of the firm, models of competition, market structure, pricing, and dynamic models. The course emphasizes theory with support from specific industries, including telecommunications, retail, and airlines.

ECON3031 – Economic Applications of Game Theory
Credits: 3

This course introduces students to game theory as a practical framework for analyzing strategic decision-making in economics, business, public policy, and social interactions. The course covers core concepts such as simultaneous and sequential games, Nash equilibrium, mixed strategies, repeated games, bargaining, coordination,

cooperation, incentives, and information asymmetry. Building on themes from Strategy and Information, the course examines how individuals, firms, governments, and institutions make decisions when their outcomes depend on the choices of others. Students will apply game-theoretic reasoning to real-world issues such as market competition, auctions, regulation, strategic communication, collective action, institutional design, and decision-making under incomplete or asymmetric information.

ECON3050 – Behavioral Economics
Credits: 3

The course covers recent topics in behavioral economics, with an emphasis on applications to other fields of economics. Topics include deviations from the standard neoclassical model in terms of (i) preferences (time and risk preferences, reference dependence, and social preferences), (ii) beliefs and learning (overconfidence, projection bias, and attribution bias), and (iii) decision-making (cognition, attention, framing, and persuasion), as well as (iv) market reactions to such deviations. Applications will cover a wide range of fields, including labor and public economics, industrial organization, health economics, household finance, political economy, and development economics.

ECON3090 – Institutional Economics
Credits: 3

The course analyzes the framework of rules and institutions for economic activities and transactions, including the emergence and working properties of different institutions and classical and contemporary approaches to economic theory of institutions.

ECON3111 – Public Policy
Credits: 3

This course introduces students to the economic analysis of public policy, with a focus on how governments design, evaluate, and implement policies to improve social welfare. Building on core concepts from welfare economics, the course examines market failures, externalities, public goods, inequality, redistribution, cost-benefit analysis, taxation, regulation, and social insurance. Students will learn how economic tools can be used to assess policy trade-offs, evaluate efficiency and equity, and understand the role of government in addressing economic and social challenges. Through real-world policy examples and case studies, the course prepares students to critically analyze public policy issues and propose evidence-based policy solutions.

ECON3130- International Economics
Credits: 3

This course introduces students to the key theories, policies, and real-world issues that shape economic interactions across countries. The course covers both

international trade and international finance, including comparative advantages, gains from trade, trade policy instruments, global value chains, exchange rates, balance of payments, capital flows, and the role of international economic institutions. Students will examine how globalization affects firms, workers, consumers, governments, and national development strategies. Through theoretical models, empirical evidence, and contemporary case studies, the course helps students develop the analytical skills needed to evaluate international economic policies and understand the opportunities and challenges facing economies in an interconnected world.

ECON4020 – Real Estate Economics
Credits: 3

Real Estate Economics explores key policy issues, their economic impact on real-estate decision-making, and identifies indicators used to track economic and real estate performance. The course also examines the economic structure of major metropolitan areas, the impact of local governments on urban economic growth, the impact of urban economic growth on supply and demand identification for specific property types, and conditions under which certain regions thrive while others decline. Building upon the concepts and tools of economic analysis, this course introduces appropriate data sources and techniques useful in analyzing and forecasting real estate demand and supply in different markets for specific property types at specific locations.

ECON4040 – Finance and Society
Credits: 3

The Finance and Society course provides students with a broad historical and social-scientific introduction to a central aspect of modern economic life: Finance. By drawing upon a variety of disciplinary perspectives from the humanities and social sciences, the course offers a multi-dimensional picture of finance, not only as an economic phenomenon, but as a political, cultural, intellectual, material, and technological one. The course offers an introduction to foundational financial concepts and technologies and will help students understand finance as a complex and multifaceted phenomenon. This course also provides students with the opportunity to improve skills in written communication and to learn tools for historical analysis and textual interpretation.

ECON4061 – Financial Crisis
Credits: 3

The Financial Crisis course is an introduction to the economic theories of financial crises. It focuses on amplification mechanisms that exacerbate crises, such as leverage, fire sales, bank runs, interconnections, and complexity. It also analyzes the different perspectives on the origins of crises, such as mistaken beliefs and moral hazard, and discusses the optimal regulation of the financial system. The course

draws upon examples from financial crises around the world, especially the recent subprime financial crisis.