

College of Interdisciplinary Studies

Degrees

- **Bachelor of Science in Business Transformation**
 - Specialization in Finance
 - Specialization in Accounting
 - Concentration in Operations Management
 - Concentration in Growth Strategy & Management
 - Concentration in Entrepreneurship & Innovation
- **Bachelor of Science in Computational Systems**
 - Concentration in Applied Data Science
 - Concentration in Machine Intelligence
 - Concentration in Digital Security
- **Bachelor of Science in Social Innovation**
 - Specialization in Communication & Media
 - Specialization in Psychology
 - Concentration in Behavioral Economics
 - Concentration in Political & Economic Systems
 - Concentration in Societal Transformation
- **Bachelor of Science in Sustainability**
 - Concentration in Sustainable Enterprise
 - Concentration in Sustainable Policy
 - Concentration in Sustainable Environments

Note: The availability of all concentrations and specializations is subject to student enrollment.

Mission

The College of Interdisciplinary Studies prepares top students for professional leadership in the rapidly changing global environment, imparting seminal skills that can be transferred across contexts and applied in novel ways.

Vision

The pioneer in empowering emerging leaders to advance business innovation and societal transformation with interdisciplinary knowledge and applied skills.

Faculty Listings

Dean: Paul Hopkinson

Associate Dean: John Matthews

Aaina Menon, Afroditi Tsioufi, Afroditi Tsioufi, Afshan Parkar, Aimee Grange, Ajda Osifo, Alliya Anderson, Amir Kaviani, Amjad Abu ElSamen, Anke Reichenbach, Areej ElSayary, Ayeza Siddiqi, David

Sancho Barrera, Effrosyni Georgiadou, Efstathios Polyzos, Efthymia Efthymiou, Eleana Kafeza, Elena Nikolova, Emad Mahafzah, Erin Kinnally, Fatma Outay, Fatma Said, Feras Lafi, Georgios Tsakirakis, Guy Meredith, Hana Shahin, Harbinder Singh, Hemali Makhija, Herveen Singh, Jacklyn Gentile, Jaime Buchanan, Jamal Al-Karaki, James Morton, Jennifer Ryan, Jeremy Williams, Joshua Kolapo, Jotsna Rajan, Kaustuv Ganguli, Kerim Arin, Layal Youssef, Linda Smail, Maha Hadid, Mariam Hariri, Maryam Jawad, Mazna Patka, Michael Bowles, Mohammad Kuhail, Mona Bader, Mostafa Mohamad, Muhammad Taj, Natalya Sukhonos, Nicolina Kamenou, Nishara Nizamuddin, Ola Taji, Ons Al-Shamaileh, Pinar Ozdemir-Ayber, Rawia Ahmed, Rochelle Williams, Saifeddin Al-Imamy, Sajid Ali, Salam Khanji, Salwa Husain, Sandra Baroudi, Sarah Calderwood, Scott Swain, Serena Aoun, Stephanie Siam, Steven Kranz, Suha Karaki, Sujith Mathew, Sunitha Kannenchery, Suzanna El Massah, Vasilina AlKhalidi, Vladimir Dzenopoljac, Ximena Cordova, Zeina Hojeij, Zia Saunders, Zoe Hurley.

Bachelor of Science in Business Transformation

Private enterprise is one of the world's primary drivers of wealth, employment, technological advances, and social progress. Effective business leaders and entrepreneurs need an understanding of corporate and market dynamics that drive growth and competition, the strategy and mechanics of business innovation, and managing operational complexity involved with turning a local success into a global enterprise, or taking a new idea from proposal to profitability. The Business Transformation program teaches students the principles and practice of organizational leadership and prepares them for innovation in top global organizations. It will support the critical needs of the business sector by preparing graduates ready to embark upon careers such as Entrepreneur, Strategy Consultant, Investment Banker, Product Manager, Venture Analyst, Growth Manager, and Operations Manager.

In the Business Transformation program students will take courses that provide in-depth disciplinary knowledge and skills, as well as electives from courses offered in other programs. In addition, students will complete an internship and an independent Capstone project.

Program Goals

- Provide our students with in-depth disciplinary knowledge and skills they need to understand corporate and market dynamics that drive

growth and competition.

- Teach students the principles and practice of organizational leadership and prepare them for innovation in top global organizations.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. **Evidence in Management:** Employ market research, data analyses, and structured decision making tools to implement evidence based management practices.
(Level 7 of QFE: Knowledge, Skills)
2. **Strategy and Growth:** Explain how marketing, finance, and operations work together to drive strategy formation and business growth while addressing collective social problems.
(Level 7 of QFE: Knowledge, Skills)
3. **Organizational Dynamics:** Analyze group dynamics and engage in effective organizational collaboration.
(Level 7 of QFE: Autonomy and responsibility, Role in context)
4. **Design Thinking:** Cultivate new business ideas using ideation and design thinking methodologies.
(Level 7 of QFE: Skills, Autonomy and responsibility)
5. **Cross-cultural Business:** Apply business concepts and methodologies in diverse socio-cultural contexts.
(Level 7 of QFE: Autonomy and responsibility)
6. **Communication and Teamwork:** Effectively communicate with technical and non-technical audiences, and solve problems collaboratively.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context, Self-development)

Specialization in Finance

The Finance specialization prepares students in three areas:

Corporate finance: Students focus on tools and techniques for valuing productive assets, choosing ways of funding them and gauging financial success. The focus is on aligning corporate strategy and financial decisions, and enhancing firm value through judicious financial decisions.

Investments: Students understand the nature and dynamics of financial markets, including the stock, bond and derivatives markets. They learn how to invest in these markets to enhance returns and reduce risk.

Islamic Banking and Finance: Students learn about basic Islamic principles of finance and contracting. They learn about how modern-day Islamic banks, insurance companies and money management firms are modifying and customizing their traditional practice to conform to Sharia principles. These unique insights prepare them for a career in the growing Islamic Finance industry.

Specialization Learning Outcomes

1. **Financial Problem Solving and Decision Making:** Evaluate complex business problems and provide solutions through the application of financial management.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
2. **Advanced Financial and Investment Analysis:** Analyze the operation of security markets, determine the value of financial securities, and design efficient portfolios.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
3. **Global Financial Transformation:** Analyze and assess how recent trends and developments in the global financial markets and institutions influence financial practices and learn how to invest in these globally transformed markets to enhance returns and manage risks.
(Level 7 of QFE: Knowledge, Skills, Role in context, Self-development)

Specialization in Accounting

The Accounting specialization prepares students to assume professional roles as business leaders with the ability to organize, analyze, manage and report on the financial results of business transactions and make informed business decisions. Students are exposed to the broad areas of financial accounting, costing, strategic management accounting, auditing, data analytics and accounting systems, taxation, and accounting for government and the oil and gas industry. They become conversant with international accounting standards and tools, and acquire the analytical skills necessary for entry-level accounting positions in industry and government. The coursework within the specialization also helps prepare students for professional certification programs such as ACCA, CPA and others.

Specialization Learning Outcomes

1. **Professional knowledge:** Evaluate and differentiate basic and advanced accounting concepts and theories, and professional accounting standards.
(Level 7 of QFE: Knowledge)
2. **Practical inference:** Identify new problems related to the accounting discipline and create innovative solutions.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
3. **Organizational sustainability:** Evaluate the short- and long-term consequences of accounting decisions and strategically analyze accounting and technological changes at both local and global levels.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Operations Management

The concentration in Operations Management equips students with advanced modeling tools and forward-thinking strategies to manage and improve business processes to achieve competitive advantage with respect to quality, responsiveness, pricing, and product design. The concentration provides students with the analytical methods to optimize key decisions in designing global supply chain, inventory, and scheduling policies and manage these activities in various industry verticals.

Concentration Learning Outcomes

- Competitive Advantage:** Create competitive advantage using operations management principles while considering cost-benefit trade-offs, environmental factors, business potential, and scalability.
(Level 7 of QFE: Knowledge)
- Decision making:** Apply a variety of decision-support tools to obtain operations management insights and solve business problems.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Growth Strategy & Management

The Growth Strategy and Management concentration prepares students to become change-makers who build and transform organizations. The students will be equipped with a toolkit that will allow them to critically analyze and utilize the internal resources and the external environment. They will be able to identify those situations when organizational change is needed and then use their leadership and management skills to effectively forge new paths for the organization.

Concentration Learning Outcomes

- Leading for change:** Evaluate how diverse groups of internal and external stakeholders can be motivated and influenced to adapt to changing competitive conditions in order to achieve growth.
(Level 7 of QFE: Knowledge, Skills)
- Practical management skills:** Develop an organizational vision, formulate strategies, and design an organizational system that effectively utilizes resources.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Entrepreneurship & Innovation

The Entrepreneurship and Innovation concentration prepares students to develop innovative business ideas and commercialize them. Students will learn about identifying and creating opportunities based on market conditions and personal passions and then how to capitalize on these opportunities through proper business planning. This process will be facilitated through the development of an innovative mindset to provide students with the cognitive adaptability and resilience to prepare them for the entrepreneurial journey.

Concentration Learning Outcomes

- Practical Development:** Integrate the principles of entrepreneurship and innovation into the design and implementation of a start-up strategy.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
- Create Value:** Evaluate a product's value proposition and summarize this information for stakeholders.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Degree Requirements

Required Credit Hours: 120 hours

General Education	40 CHs
Program Required Courses	30 CHs
Internship and Capstone Project	14 CHs
Specialization courses	36 CHs
or	
Concentration Courses and	24 CHs
Electives from other programs	12 CHs

General Education		40 CHs
ICB101	Strategic Learning and Growth	4
ICB102	Expressive Clarity	3
IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1
ICB103	Applied Algorithmic Thinking	4
IDS101	Critique and Communication	4
IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IDS102	Applied Creative and Critical Thinking	4
IDS103	Statistical Intuitions & Applications	4

IDS104	Deriving Insights from Evidence	4
IDS105	Systems and Society	4
IDS220	Fundamentals of Innovation and Entrepreneurship	3
IAH244	Ethical Systems, Moral Dilemmas	4

Program Required Courses		44 CHs
IBS210	Market Dynamics and Product Analytics	4
IBS211	Financial Planning, Budgeting and Modeling	4
IBS212	Doing Business	4
IBS213	Enterprise, Design, and Optimization	4
IBS214	Economics	3
IBS310	Decision Support Models and Technologies	4
IBS410	Corporate Business Law & Ethics	4
IBS411	Negotiation and conflict management	3
IDS391	Capstone Seminar I	3
IDS493	Capstone Project I	4
IDS494	Capstone Project II	4
IBS490	Internship	3

Specialization in Finance courses		36 CHs
IBS345	Venture Initiation and Valuation	4
IBS321	Equity, Fixed Income, and Alternative Investments	4
BS322	Banking & Financial Institutions	3
IBS323	Corporate Issuers	4
IBS324	Portfolio Management and Wealth Planning	4
IBS325	International Financial and Risk Management	4
IBS326	Financial Statement Analysis	4
IBS327	Islamic Banking and Finance	3
IBS328	FinTech Innovations	3
IBS329	Green and Sustainable Finance	3

Specialization in Accounting courses		36 CHs
IBS301	Business Financial Statements and Accounting Standards	3
IBS302	Management Accounting for Business Decisions	4
IBS303	Financial Reporting	4
IBS304	Information Technology, Data Analytics and Accounting Systems	4
IBS401	Advanced Accounting	4

IBS402	Costing	4
IBS403	Auditing	4
IBS404	Corporate Taxation	3
IBS406	Strategic Management Accounting	3
IBS405	Accounting for Government, Oil and Gas, and Not-for-Profit Organizations	3

Concentration in Operations Management courses		24 CHs
IBS346	Business Operations	4
IBS356	Business Systems	4
IBS340	Business Analytics	3
IBS466	Business Optimization	4
IBS348	Business Processes	3
IBS445	Advanced Operations Management	3
IBS446	Managing Global Supply Chains	3

Concentration in Growth Strategy & Management courses		24 CHs
IBS365	Market & Competitive Analysis	3
IBS356	Business Systems	4
IBS454	Strategic Brand Leadership	4
IBS361	Leading and Transforming Organizations	3
IBS455	Capital Allocation and Value Creating Growth	4
IBS364	Mergers, Acquisitions & Alliances	3
IBS461	The Future of Work	3

Concentration in Entrepreneurship & Innovation courses		24 CHs
IBS344	Needs Identification and Product Development	4
IBS454	Strategic Brand Leadership	4
IBS380	Digital Visibility	4
IBS381	Positive Organizational Development	4
IBS480	Customer Journey Management	4
IBS485	Venture Creation	4
IBS461	The Future of Work	3

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Business Transformation
Specialization in Finance
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade	1	IDS103	Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	
		Arabic Lab 1 (NN): Arabic Language & Culture for Beginners				Statistical Intuitions and Applications
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	IBS210	Market Dynamics and Product Analytics	4	IBS212	Doing Business	4
	IBS211	Financial Planning, Budgeting and Modeling	4	IBS213	Enterprise, Design, and Optimization	4
	IBS214	Economics	3	IBS345	Venture Initiation and Valuation	4
		Total	15		Total	16
Year 3	Semester 5			Semester 6		
	IBS310	Decision Support Models and Technologies	4	IDS391	Capstone Seminar I	3
	IBS321	Equity, Fixed Income, and Alternative Investments	4	IBS324	Portfolio Management and Wealth Planning	4
	IBS322	Banking & Financial Institutions	3	IBS325	International Financial and Risk Management	4
	IBS323	Corporate Issuers	4	IBS326	Financial Statement Analysis	4
		Total	15		Total	15
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IBS490	Internship	3
	IBS327	Islamic Banking and Finance	3	IDS494	Capstone Project II	4
	IBS328	FinTech Innovations	3	IBS411	Negotiation and conflict management	3
	IBS410	Corporate Business Law & Ethics	4	IBS329	Green and Sustainable Finance	3
		Total	14		Total	13

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Business Transformation
Specialization in Accounting
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	IBS210	Market Dynamics and Product Analytics	4	IBS212	Doing Business	4
	IBS211	Financial Planning, Budgeting and Modeling	4	IBS213	Enterprise, Design, and Optimization	4
	IBS214	Economics	3	IBS301	Business Financial Statements and Accounting Standards	3
		Total	15		Total	15
Year 3	Semester 5			Semester 6		
	IBS310	Decision Support Models and Technologies	4	IDS391	Capstone Seminar I	3
	IBS302	Management Accounting for Business Decisions	4	IBS401	Advanced Accounting	4
	IBS303	Financial Reporting	4	IBS402	Costing	4
	IBS304	Information Technology, Data Analytics and Accounting Systems	4	IBS403	Auditing	4
		Total	16		Total	15
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IBS490	Internship	3
	IBS404	Corporate Taxation	3	IDS494	Capstone Project II	4
	IBS406	Strategic Management Accounting	3	IBS411	Negotiation and conflict management	3
	IBS410	Corporate Business Law & Ethics	4	IBS405	Accounting for Government, Oil and Gas, and Not-for-Profit Organizations	3
		Total	14		Total	13

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Business Transformation
Concentration in Operations Management
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	IBS210	Market Dynamics and Product Analytics	4	IBS212	Doing Business	4
	IBS211	Financial Planning, Budgeting and Modeling	4	IBS213	Enterprise, Design, and Optimization	4
	IBS214	Economics	3	Elective	Elective from other programs	3
		Total	15		Total	15
Year 3	Semester 5			Semester 6		
	IBS310	Decision Support Models and Technologies	4	IDS391	Capstone Seminar I	3
	IBS346	Business Operations	4	IBS340	Business Analytics	3
	IBS356	Business Systems	4	IBS466	Business Optimization	4
	Elective	Elective from other programs	3	IBS348	Business Processes	3
				Elective	Elective from other programs	3
		Total	15		Total	16
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IBS490	Internship	3
	IBS445	Advanced Operations Management	3	IDS494	Capstone Project II	4
	Elective	Elective from other programs	3	IBS411	Negotiation and conflict management	3
	IBS410	Corporate Business Law & Ethics	4	IBS446	Managing Global Supply Chains	3
		Total	14		Total	13

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Business Transformation
Concentration in Growth Strategy & Management
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	IBS210	Market Dynamics and Product Analytics	4	IBS212	Doing Business	4
	IBS211	Financial Planning, Budgeting and Modeling	4	IBS213	Enterprise, Design, and Optimization	4
	IBS214	Economics	3	Elective	Elective from other programs	3
		Total	15		Total	15
Year 3	Semester 5			Semester 6		
	IBS310	Decision Support Models and Technologies	4	IDS391	Capstone Seminar I	3
	IBS365	Market & Competitive Analysis	3	IBS454	Strategic Brand Leadership	4
	IBS356	Business Systems	4	IBS361	Leading and Transforming Organizations	3
	Elective	Elective from other programs	3	IBS455	Capital Allocation and Value Creating Growth	4
				Elective	Elective from other programs	3
		Total	14		Total	17
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IBS490	Internship	3
	IBS364	Mergers, Acquisitions & Alliances	3	IDS494	Capstone Project II	4
	Elective	Elective from other programs	3	IBS411	Negotiation and conflict management	3
	IBS410	Corporate Business Law & Ethics	4	IBS461	The Future of Work	3
		Total	14		Total	13

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Business Transformation
Concentration in Entrepreneurship & Innovation
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	IBS210	Market Dynamics and Product Analytics	4	IBS212	Doing Business	4
	IBS211	Financial Planning, Budgeting and Modeling	4	IBS213	Enterprise, Design, and Optimization	4
	IBS214	Economics	3	Elective	Elective from other programs	3
		Total	15		Total	15
Year 3	Semester 5			Semester 6		
	IBS310	Decision Support Models and Technologies	4	IDS391	Capstone Seminar I	3
	IBS344	Needs Identification and Product Development	4	IBS380	Digital Visibility	4
	IBS454	Strategic Brand Leadership	4	IBS381	Positive Organizational Development	4
	Elective	Elective from other programs	3	Elective	Elective from other programs	3
		Total	15		Total	14
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IBS490	Internship	3
	IBS480	Customer Journey Management	4	IDS494	Capstone Project II	4
	Elective	Elective from other programs	3	IBS411	Negotiation and conflict management	3
	IBS410	Corporate Business Law & Ethics	4	IBS485	Venture Creation	4
		Total	15		Total	14

Total = 120 Credit Hours

Bachelor of Science in Computational Systems

Computational Systems provide the scientific foundations for making sense of natural, human-mediated, and social phenomena through analytics, computational methods, and modeling. In an age of ubiquitous - and often overwhelming - data, the ability to harness that data to reflect, reach out and make better decisions is increasingly crucial. The Computational Systems program prepares students for the future of technological innovation and life in the information age. Students use logic and data analysis to make informed decisions and solve complex problems. Students will employ the techniques of artificial intelligence, machine learning, and software engineering in the service of innovation, data-driven decision making, and technological innovation. It will support the critical needs of the technology sector by preparing graduates ready to embark upon careers such as Data Scientist, Data Analyst, Big Data Developer, Business Intelligence Developer, AI Developer, Intelligence Analyst, AI Research Scientist, Data Security Analysts, Blockchain Engineer, Incident Analyst.

In the Computational Systems program, students will take courses that provide in-depth disciplinary knowledge and skills, as well as electives from courses offered in other programs. In addition, they will complete an internship and an independent Capstone project.

Program Goals

To provide organizations with computational systems professionals skilled in cutting edge technologies in machine intelligence, applied data science, and digital security, enabling them to deliver competitive products that leverage artificial intelligence to meet customers' needs, data science for decision making support, and security to protect the society in the digital age.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- 1. Computational Solutions:** Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
- 2. Computational Design:** Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
(Level 7 of QFE: Skills, Autonomy and responsibility)
- 3. Communication:** Communicate effectively in a variety of professional contexts.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role

in context)

- 4. Professional Practice:** Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
(Level 7 of QFE: Self-development)
- 5. Working in Teams:** Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
(Level 7 of QFE: Role in context, Self-development)

Concentration in Applied Data Science

This concentration will focus on the scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data, in addition to systems architectures and implementations for handling large scale data intensive environments.

Students will acquire the skills necessary to analyze, interpret, and exploit large amounts of data. Through the lenses of statistics, machine learning, and stochastic modeling, students learn how to draw strong inferences about the world around us. Concentration Learning Outcomes

1. Construct analytical models for processing raw data into knowledge, discovering business insights, and creating value using descriptive, predictive, and prescriptive analytics.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
2. Deploy data-driven solutions to real-world environments and understand their ethical and social implications.
(Level 7 of QFE: Skills, Autonomy and responsibility, Self-development)
3. Design compelling data narratives and visual representations to expose insights derived from analytics and communicate it to a diverse set of stakeholders.
(Level 7 of QFE: Autonomy and responsibility, Role in context)

Concentration in Machine Intelligence

Machine Intelligence has created a paradigm shift in technology affecting all facets of businesses, governments, and society due to advances in AI and the exponential growth of data. The Machine Intelligence concentration provides students with the technical knowledge and analytical methods that will prepare them for the next generation of innovation. In this concentration, students will learn the latest trends in Machine Learning such as Neural Networks and Deep Learning to Computer Vision and Natural Language Processing to build and validate models to all kinds of data within organizations to gain insights and drive business intelligence.

Concentration Learning Outcomes

1. Apply machine learning and Artificial Intelligence technologies to solve computational and quantitative problems.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
2. Synthesize and validate AI models to create industry-ready solutions for prediction, classification, and business insights.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context)
3. Explain the technical, ethical, and societal implications and limitations of AI models.
(Level 7 of QFE: Skills, Self-development)

Concentration in Digital Security

The global trend of digitization has exposed society to borderless threats and attacks from local and global actors. Ranging from digital humanity, digital society, to digital economy, dimensions of threats present myriads of challenges that require urgent remediation. Security in this digitized world is therefore an immensely important issue that requires the knowledge of the underlying technology, principle, and theories. The digital security concentration provides balance between the growing technological advances, the practical implementation of protective principles, and the underlying theory of security.

The students will acquire the versatile skills set to protect computer systems, data, and networks from malicious cyberattacks. They will utilize cybersecurity tools and techniques to find system vulnerabilities while building security solutions to prevent malicious attacks and the threat intelligence knowledge to show how attacks have occurred and identify their origins.

Concentration Learning Outcomes

1. Use digital security principles, tools, skills, and practices to safeguard computer systems, data, and applications.
(Level 7 of QFE: Knowledge, Skills)
2. Apply machine learning and data analysis techniques to mitigate data security threats in traditional and emerging computing platforms.
(Level 7 of QFE: Skills, Autonomy and responsibility)
3. Analyze threats and vulnerabilities to manage risks, investigate cybercrimes and communicate ethical and technical findings to appropriate stakeholders in the digital security ecosystem.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context, Self-development)

Degree Requirements

Required Credit Hours: 120 hours

General Education	40 CHs
Program Required Courses	30 CHs
Concentration Courses	24 CHs
Internship and Capstone Project	14 CHs
Electives	12 CHs

General Education		40 CHs
ICB101	Strategic Learning and Growth	4
ICB102	Expressive Clarity	3
IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1
IDS101	Critique and Communication	4
IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IDS102	Applied Creative and Critical Thinking	4
IDS103	Statistical Intuitions & Applications	4
IDS104	Deriving Insights from Evidence	4
IDS105	Systems and Society	4
IDS220	Fundamentals of Innovation and Entrepreneurship	3
IAH244	Ethical Systems, Moral Dilemmas	4

Program Required courses		30 CHs
ICS211	Single and Multivariable Calculus	4
ICS215	Mathematics For Computational Systems	3
ICS230	Information Security and Data Privacy	3
ICS221	Data Structures and Algorithms	4
ICS220	Programming Fundamentals	3
ICS214	Probability, Statistics, and the Structure of Randomness	4
ICS340	Database Systems	3
ICS360	Computer Networks Fundamentals	3
ICS350	Introduction to Artificial Intelligence	3
Internship and Capstone Project courses		14 CHs
IDS391	Capstone Seminar I	3
IDS493	Capstone Project I	4
IDS494	Capstone Project II	4
ICS490	Internship	3

Concentration in Applied Data Science courses		24 CHs
ICS351	Machine Learning	4
ICS315	Computational Bayesian Statistics	4
ICS341	Big Data Analytics	4
ICS420	Parallel Programming & Distributed Computing	4
ICS441	Data Science and Decision Making	4
ICS443	Visual and Interactive Analytics	4

Concentration in Machine Intelligence courses		24 CHs
ICS351	Machine Learning	4
ICS315	Computational Bayesian Statistics	4
ICS353	Perceiving the World through Computer Vision	4
ICS451	Natural Language Technologies	4
ICS450	Applied Neural Networks and Deep Learning	4
ICS453	Autonomous Systems	4

Concentration in Digital Security courses		24 CHs
ICS351	Machine Learning	4
ICS330	Attack and Defense in Cyberspace	4
ICS331	Applied Cryptography and Identity Management	4
ICS432	Software Security	4
ICS430	Governance, Compliance, and Risk Management	4
ICS431	Digital Forensics and Incident Response	4

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Computational Systems
Concentration in Applied Data Science
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ICS211	Single and Multivariable Calculus	4	ICS221	Data Structures and Algorithms	4
	ICS215	Mathematics For Computational Systems	3	ICS220	Programming Fundamentals	3
	ICS230	Information Security and Data Privacy	3	ICS214	Probability, Statistics, and the Structure of Randomness	4
		Total	14		Total	15
Year 3	Semester 5			Semester 6		
	ICS340	Database Systems	3	IDS391	Capstone Seminar I	3
	ICS360	Computer Networks Fundamentals	3	ICS351	Machine Learning	4
	ICS350	Introduction to Artificial Intelligence	3	ICS315	Computational Bayesian Statistics	4
	Elective	Elective from other programs	3	ICS341	Big Data Analytics	4
	Elective	Elective from other programs	3			
		Total	15		Total	15
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ICS490	Internship	3
	ICS420	Parallel Programming & Distributed Computing	4	IDS494	Capstone Project II	4
	ICS441	Data Science and Decision Making	4	Elective	Elective from other programs	3
	ICS443	Visual and Interactive Analytics	4	Elective	Elective from other programs	3
		Total	16		Total	13

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Computational Systems
Concentration in Machine Intelligence
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ICS211	Single and Multivariable Calculus	4	ICS221	Data Structures and Algorithms	4
	ICS215	Mathematics For Computational Systems	3	ICS220	Programming Fundamentals	3
	ICS230	Information Security and Data Privacy	3	ICS214	Probability, Statistics, and the Structure of Randomness	4
		Total	14		Total	15
Year 3	Semester 5			Semester 6		
	ICS340	Database Systems	3	IDS391	Capstone Seminar I	3
	ICS360	Computer Networks Fundamentals	3	ICS351	Machine Learning	4
	ICS350	Introduction to Artificial Intelligence	3	ICS315	Computational Bayesian Statistics	4
	Elective	Elective from other programs	3	ICS353	Perceiving the World through Computer Vision	4
	Elective	Elective from other programs	3			
		Total	15		Total	15
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ICS490	Internship	3
	ICS451	Natural Language Technologies	4	IDS494	Capstone Project II	4
	ICS450	Applied Neural Networks and Deep Learning	4	ICS453	Autonomous Systems	4
	Elective	Elective from other programs	3	Elective	Elective from other programs	3
		Total	15		Total	14

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Computational Systems
Concentration in Digital Security
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ICS211	Single and Multivariable Calculus	4	ICS221	Data Structures and Algorithms	4
	ICS215	Mathematics For Computational Systems	3	ICS220	Programming Fundamentals	3
	ICS230	Information Security and Data Privacy	3	ICS214	Probability, Statistics, and the Structure of Randomness	4
		Total	14		Total	15
Year 3	Semester 5			Semester 6		
	ICS340	Database Systems	3	IDS391	Capstone Seminar I	3
	ICS360	Computer Networks Fundamentals	3	ICS351	Machine Learning	4
	ICS350	Introduction to Artificial Intelligence	3	ICS330	Attack and Defense in Cyberspace	4
	Elective	Elective from other programs	3	ICS331	Applied Cryptography and Identity Management	4
	Elective	Elective from other programs	3			
		Total	15		Total	15
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ICS490	Internship	3
	ICS432	Software Security	4	IDS494	Capstone Project II	4
	ICS430	Governance, Compliance, and Risk Management	4	Elective	Elective from other programs	3
	ICS431	Digital Forensics and Incident Response	4	Elective	Elective from other programs	3
		Total	16		Total	13

Total = 120 Credit Hours

Bachelor of Science in Social Innovation

Students in the Social Innovation program apply scientific methods to understand the ways people think and act - individually, in groups, and in societies - and the ways that biology and the environment interact to make each of us unique. Research findings from the social sciences inform public policy on a wide range of issues, such as reducing crime, designing effective political campaigns, helping people overcome addictions, crafting economic/labor policies, and convincing people to conserve resources. Students in the Social Innovation program will devise ways to improve society by examining the challenges facing developing and developed economies, analyzing the central components of governments and constitutions, and using the science of influence and motivation. It will support the critical needs of UAE society and government by preparing graduates ready to embark upon careers such as Social Entrepreneur, Labor Specialist, Corporate Attorney, Urban Planner, Economist, Science Journalist, Policy Analyst and Conflict Mediator.

In the Social Innovation program, students will take courses that provide in-depth disciplinary knowledge and skills, as well as electives from courses offered in other programs. In addition, they will complete an internship and an independent Capstone project.

Program Goals

To meet our social innovation majors' aspirations to address complex, interconnected issues in society through a deep understanding of human behavior within broader political and economic macro environmental contexts, by leveraging the latest communication strategies and media technologies to articulate and influence social change and innovation.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- 1. Levels of Analysis:** Determine and apply levels of analysis to frame and solve problems in the social sciences.
(Level 7 of QFE: Knowledge, Skills)
- 2. Complex Systems:** Utilize concepts from complex system theory to analyze social phenomena.
(Level 7 of QFE: Knowledge, Skills)
- 3. Interdisciplinary Social Science:** Analyze individual and collective human behavior using principles and theories from multiple social science disciplines.
(Level 7 of QFE: Knowledge, Skills)

- 4. Quantitative Social Science:** Utilize quantitative and computational methods to operationalize and investigate social phenomena.
(Level 7 of QFE: Knowledge, Skills)
- 5. Problem Solving:** Apply principles and practice of the social sciences to solve social problems
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context, Self-development)
- 6. Communication and Teamwork:** Effectively communicate with technical and non-technical audiences, and solve problems collaboratively.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context, Self-development)

Specialization in Communication & Media

This specialization takes an interdisciplinary approach to examining the societal impact of emerging communication and media technologies at the nexus of social, cultural, political, and economic landscapes. Students examine concepts and theories from psychology, economics, political science, cultural studies, and communication to develop powerful content that communicates local yet global perspectives on areas of national priority such as science, sustainability, health, tourism, diversity, and tolerance.

Specialization Learning Outcomes

- Evaluate the principles and laws of freedom of speech and press, in a global context, and for the country.
(Level 7 of QFE: Knowledge, Autonomy and responsibility, Role in context)
- Demonstrate an understanding of the multicultural history and role of professionals and institutions in shaping communications.
(Level 7 of QFE: Knowledge, Autonomy and responsibility, Role in context, Self-development)
- Create culturally proficient communication that empowers those traditionally disenfranchised in society, domestically and globally, across communication and media contexts.
(Level 7 of QFE: Knowledge, Autonomy and responsibility, Role in context, Self-development)
- Apply the tools and technologies used by the communications professions in which they work.
(Level 7 of QFE: Skills, Autonomy and responsibility, Role in context)

Specialization in Psychology

The specialization helps students develop a disciplinary focus in psychology. Building on the interdisciplinary core, the specialization in psychology gives students the knowledge and skills that will empower them to apply psychology in the cause of social innovation, developing and deploying effective solutions to challenging and systemic social and environmental problems. The

psychology specialization is also an excellent grounding for students wishing to pursue graduate programs in various fields of pure and applied psychology.

Specialization Learning Outcomes

1. Demonstrate an understanding of psychology as an interdisciplinary science focused on human functioning and interaction within a broad socio-ecological context.
(Level 7 of QFE: Knowledge, Skills)
2. Evaluate different bio-psycho-social perspectives to address social problems and promote positive individual and social change.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
3. Formulate research-informed psychological views on human motivation, achievement, and wellbeing as part of the preparation for leadership responsibilities.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
4. Produce high quality research that explores psychological phenomena and functioning from interdisciplinary perspectives, with the goal of testing and integrating hypotheses.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context)

Concentration in Behavioral Economics

This concentration draws on the tools of psychology and economics to better understand, predict, and influence how people and organizations make decisions, especially economic ones. Students will be prepared to pursue careers in marketing, public policy, consulting, as well as graduate studies in the social sciences.

Concentration Learning Outcomes

1. Evaluate core economic concepts, theories and methods.
(Level 7 of QFE: Knowledge, Skills)
2. Apply quantitative research methods to economic issues to critically assess and design policy recommendations.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
3. Summarize and compare economic policies in written, spoken and graphical form.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context)

Concentration in Political & Economic Systems

This concentration helps students develop the skills to navigate the complex ways in which political institutions affect and are affected by economic policies and entities, internal and external actors. Students learn to develop innovative solutions for problems related to international affairs, international institutions, energy politics and global governance. This concentration prepares

students for careers and graduate studies in public policy, government, economic analysis, international relations, and law.

Concentration Learning Outcomes

1. Demonstrate an in-depth understanding of political and economic concepts, theories and modes of inquiries.
(Level 7 of QFE: Knowledge, Skills)
2. Analyze the causes and consequences of political and economic challenges at the local, regional and international levels.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Self-development)
3. Apply political and economic analytical skills effectively in addressing contemporary political and economic problems.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Self-development)
4. Develop desirable and feasible solutions for economic and political problems while designing and implementing social policies.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Societal Transformation

This concentration focuses on the perspectives of the social sciences to help students analyze pressing social problems and develop viable solutions to improve society. Students learn about the cultural factors, institutional relationships and power structures that impact social change and the challenges facing societies around the world. Approaches to address societal concerns include governmental policy, social activism, and entrepreneurial practices of the business sector. Ethical and legal frameworks are considered and discussed in the context of how they shape society. Students in this concentration prepare for careers in public and urban policy, government, non-governmental institutions and organizations, social entrepreneurship, and social science research.

Concentration Learning Outcomes

1. Analyze social structures in societies around the world and understand the causes and consequences of social and economic inequality, poverty, and other issues at the heart of societal problems.
(Level 7 of QFE: Knowledge, Skills)
2. Compare different cultural practices and belief systems and evaluate their impact on approaches to political, economic, social and cultural systems.
(Level 7 of QFE: Knowledge, Skills)
3. Apply appropriate methodologies and skills to analyze complex social problems and design and implement solutions.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)

4. Critically assess the effectiveness and sustainability of policies, laws, movements and campaigns, cultural trends and other actions aimed at bringing about positive social change. (Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Degree Requirements

Required Credit Hours: 120 hours

General Education	40 CHs
Program Required Courses	30 CHs
Internship and Capstone Project	14 CHs
Specialization courses	36 CHs
or	
Concentration Courses and	24 CHs
Electives from other programs	12 CHs

General Education		40 CHs
ICB101	Strategic Learning and Growth	4
ICB102	Expressive Clarity	3
IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1
IDS101	Critique and Communication	4
IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IDS102	Applied Creative and Critical Thinking	4
IDS103	Statistical Intuitions & Applications	4
IDS104	Deriving Insights from Evidence	4
IDS105	Systems and Society	4
IDS220	Fundamentals of Innovation and Entrepreneurship	3
IAH244	Ethical Systems, Moral Dilemmas	4

Program Required Courses		30 CHs
ISS252	Psychology: From Neurons to Society	4
ISS211	Modern Economic Thought	4
ISS202	Introduction to Social Innovation	3
ISS212	Political Science and Social Change	4
ISS201	Economic Behavior and Organization	3
ISS200	Cultures, Globalization and Social Change	3
ISS204	Media, Data, and Social Innovation	3
ISS305	Social Movements and Community Activism	3
ISS203	Transmedia storytelling for social good	3

Internship and Capstone Project courses		14 CHs
IDS391	Capstone Seminar I	3
IDS493	Capstone Project I	4
IDS494	Capstone Project II	4
ISS490	Internship	3

Specialization in Communication & Media courses		36 CHs
ISS321	Media effects and ethics	3
ISS362	Personal and Social Motivation	4
ISS325	Strategic communication, media, audiences, and analytics	4
ISS324	Specialized writing: Communicating complex issues	4
ISS320	Diversity, Equity, Inclusion, and Global Messages	3
ISS422	Media Content Creation, Fundamentals and Futures	4
ISS323	Media, Platforms and Multimodality	4
ISS420	Communication Campaigns, Influence, and Persuasion	4
ISS421	Digital communication for Social Change	3
ISS423	Sustainability Communication	3

Specialization in Psychology courses		36 CHs
ISS445	Mind across time	3
ISS342	Theories of cognition and emotion	4
ISS352	Cognitive Neuroscience	4
ISS362	Personal and Social Motivation	4
ISS440	Big data and society-wide psychometrics	4
ISS447	Personhood and social change	3
ISS443	From social cure to social curse	3
ISS441	Digital Selves and Cybercommunities	4
ISS444	Lifestyle: Health and Wellbeing	3
ISS442	Doing Psychology as Social Good	4

Concentration in Behavioral Economics courses		24 CHs
ISS344	Economic Theory and Tools	4
ISS342	Theories of cognition and emotion	4
ISS310	Experimental and Behavioral Economics	3
ISS362	Personal and Social Motivation	4
ISS411	Macroeconomic Policy and Global Economic Linkages	3
ISS410	Economics of Labor, Health and Education	3
ISS412	Paths to Development	3

<i>Concentration in Political & Economic Systems courses</i>		<i>24 CHs</i>
ISS331	Principles of Global Governance	3
ISS344	Economic Theory and Tools	4
ISS364	Global Development and Applied Economics	4
ISS330	Globalization: Institutions and Mechanisms	3
ISS430	Energy Governance	3
ISS446	Practice of Governance	4
ISS431	Politics of Peacebuilding and Conflict Transformation	3

<i>Concentration in Societal Transformation courses</i>		<i>24 CHs</i>
ISS351	The Power of Popular Culture	3
ISS362	Personal and Social Motivation	4
ISS364	Global Development and Applied Economics	4
ISS350	Cities: People, places, power.	3
ISS450	Comparative Social Policy	3
ISS466	Comparative Constitutional Law: Designing Societies	4
ISS451	World Regions: Trends and Transformations	3

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Social Innovation
Specialization in Communication & Media
(Recommended Sequence)

	Semester 1			Credits	Semester 2			Credits
	Course	Description	Credits		Course	Description	Credits	
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4		
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1		
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4		
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4		
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3		
			Total	16			Total	16
Year 2	Semester 3			Semester 4				
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4		
	ISS252	Psychology: From Neurons to Society	4	ISS212	Political Science and Social Change	4		
	ISS211	Modern Economic Thought	4	ISS201	Economic Behavior and Organization	3		
	ISS202	Introduction to Social Innovation	3	ISS200	Cultures, Globalization and Social Change	3		
		Total	15			Total	14	
Year 3	Semester 5			Semester 6				
	ISS321	Media effects and ethics	3	IDS391	Capstone Seminar I	3		
	ISS204	Media, Data, and Social Innovation	3	ISS325	Strategic communication, media, audiences, and analytics	4		
	ISS305	Social Movements and Community Activism	3	ISS324	Specialized writing: Communicating complex issues	4		
	ISS362	Personal and Social Motivation	4	ISS320	Diversity, Equity, Inclusion, and Global Messages	3		
	ISS203	Transmedia storytelling for social good	3					
		Total	16			Total	14	
Year 4	Semester 7			Semester 8				
	IDS493	Capstone Project I	4	ISS490	Internship	3		
	ISS422	Media Content Creation, Fundamentals and Futures	4	IDS494	Capstone Project II	4		
	ISS323	Media, Platforms and Multimodality	4	ISS421	Digital communication for Social Change	3		
	ISS420	Communication Campaigns, Influence, and Persuasion	4	ISS423	Sustainability Communication	3		
		Total	16			Total	13	

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Social Innovation
Specialization in Psychology
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISS252	Psychology: From Neurons to Society	4	ISS212	Political Science and Social Change	4
	ISS211	Modern Economic Thought	4	ISS201	Economic Behavior and Organization	3
	ISS202	Introduction to Social Innovation	3	ISS200	Cultures, Globalization and Social Change	3
	Total	15		Total	14	
Year 3	Semester 5			Semester 6		
	ISS445	Mind across time	3	IDS391	Capstone Seminar I	3
	ISS204	Media, Data, and Social Innovation	3	ISS352	Cognitive Neuroscience	4
	ISS305	Social Movements and Community Activism	3	ISS362	Personal and Social Motivation	4
	ISS342	Theories of cognition and emotion	4	ISS440	Big data and society-wide psychometrics	4
	ISS203	Transmedia storytelling for social good	3			
	Total	16		Total	15	
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ISS490	Internship	3
	ISS447	Personhood and social change	3	IDS494	Capstone Project II	4
	ISS443	From social cure to social curse	3	ISS444	Lifestyle: Health and Wellbeing	3
	ISS441	Digital Selves and Cybercommunities	4	ISS442	Doing Psychology as Social Good	4
	Total	14		Total	14	

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Social Innovation
Concentration in Behavioral Economics
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
			Total	16		Total
Year 2	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISS252	Psychology: From Neurons to Society	4	ISS202	Introduction to Social Innovation	3
	ISS211	Modern Economic Thought	4	ISS201	Economic Behavior and Organization	3
	ISS212	Political Science and Social Change	4	ISS200	Cultures, Globalization and Social Change	3
				Elective	Elective from other programs	3
			Total	16		Total
Year 3	Semester 5			Semester 6		
	ISS203	Transmedia storytelling for social good	3	IDS391	Capstone Seminar I	3
	ISS204	Media, Data, and Social Innovation	3	ISS342	Theories of cognition and emotion	4
	ISS305	Social Movements and Community Activism	3	ISS310	Experimental and Behavioral Economics	3
	ISS344	Economic Theory and Tools	4	ISS362	Personal and Social Motivation	4
	Elective	Elective from other programs	3			
		Total	16		Total	14
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ISS490	Internship	3
	ISS411	Macroeconomic Policy and Global Economic Linkages	3	IDS494	Capstone Project II	4
	ISS410	Economics of Labor, Health and Education	3	Elective	Elective from other programs	3
	ISS412	Paths to Development	3			
	Elective	Elective from other programs	3			
		Total	16		Total	10

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Social Innovation
Concentration in Political & Economic Systems
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1	IDS103	Statistical Intuitions and Applications	4
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISS252	Psychology: From Neurons to Society	4	ISS212	Political Science and Social Change	4
	ISS211	Modern Economic Thought	4	ISS201	Economic Behavior and Organization	3
	ISS202	Introduction to Social Innovation	3	ISS200	Cultures, Globalization and Social Change	3
	Total	15		Total	14	
Year 3	Semester 5			Semester 6		
	ISS203	Transmedia storytelling for social good	3	IDS391	Capstone Seminar I	3
	ISS204	Media, Data, and Social Innovation	3	ISS344	Economic Theory and Tools	4
	ISS305	Social Movements and Community Activism	3	ISS364	Global Development and Applied Economics	4
	ISS331	Principles of Global Governance	3	ISS330	Globalization: Institutions and Mechanisms	3
	Elective	Elective from other programs	3			
	Total	15		Total	14	
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ISS490	Internship	3
	ISS430	Energy Governance	3	IDS494	Capstone Project II	4
	ISS446	Practice of Governance	4	ISS431	Politics of Peacebuilding and Conflict Transformation	3
	Elective	Elective from other programs	3	Elective	Elective from other programs	3
				Elective	Elective from other programs	3
	Total	14		Total	16	

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Social Innovation
Concentration in Societal Transformation
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade	1	IDS103	Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	
		Arabic Lab 1 (NN): Arabic Language & Culture for Beginners				Statistical Intuitions and Applications
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISS252	Psychology: From Neurons to Society	4	ISS202	Introduction to Social Innovation	3
	ISS211	Modern Economic Thought	4	ISS201	Economic Behavior and Organization	3
	ISS212	Political Science and Social Change	4	ISS200	Cultures, Globalization and Social Change	3
				Elective	Elective from other programs	3
		Total	16		Total	16
Year 3	Semester 5			Semester 6		
	ISS203	Transmedia storytelling for social good	3	IDS391	Capstone Seminar I	3
	ISS204	Media, Data, and Social Innovation	3	ISS362	<i>Personal and Social Motivation</i>	4
	ISS305	Social Movements and Community Activism	3	ISS364	Global Development and Applied Economics	4
	Elective	Elective from other programs	3	ISS350	Cities: People, places, power.	3
	ISS351	The Power of Popular Culture	3			
	Total	15		Total	14	
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	ISS490	Internship	3
	ISS450	Comparative Social Policy	3	IDS494	Capstone Project II	4
	ISS466	Comparative Constitutional Law: Designing Societies	4	Elective	Elective from other programs	3
	ISS451	World Regions: Trends and Transformations	3	Elective	Elective from other programs	3
	Total	14		Total	13	

Total = 120 Credit Hours

Bachelor of Science in Sustainability

Students who major in Sustainability study the science behind the impact of human activities on the environment, and learn to develop sustainability solutions through the application of new technologies, business strategy, and social policy.

In the BS in Sustainability program students will take courses that provide in-depth disciplinary knowledge and skills in the interdisciplinary field of Sustainability, as well as electives from courses offered in other programs. In addition, students will complete an internship and an independent Capstone project. In semester 6 and 7, students will have the opportunity to choose a concentration to specialize in one of the three pillars of Sustainability (economy, society or environment);

Program Goals

1. To educate students with the knowledge, skills, values and attitudes to address the interconnected global challenges of Sustainability, including climate change, environmental degradation, loss of biodiversity, poverty and inequality.
2. To provide our students with a solid understanding of the ethical principles of sustainability and how they are connected to practical issues of social justice, and environmental-economic equity.
3. To enable our students with the capacity to address the national and international environmental, societal and economic challenges facing us in the 21st century.
4. For our students to have a grounded understanding of how the 3 pillars of sustainability are interrelated, and be able to use this knowledge in systems thinking for research and for practical problem-solving.
5. To give our students the experience of working in an interdisciplinary way and to have the capability to work productively and effectively within cross-disciplinary teams.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. **Conceptual Knowledge:** Apply the principles of sustainability in various environmental, social and economic contexts.
(Level 7 of QFE: Knowledge)
2. **Communication Skills:** Communicate confidently and effectively on the subject of sustainability using advanced written, oral and visual communication skills.
(Level 7 of QFE: Skills, Autonomy and responsibility)

3. **Problem Solving & Critical Thinking:** Assess information from various sources to develop logical arguments for practical and sustainable solutions to environmental problems.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
4. **Research Skills:** Apply scientific methods and tools to collect and analyze data on real world problems relating to sustainability.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility)
5. **Environmental Awareness and Responsibility:** Analyze contemporary environmental issues at both local and global scales and incorporate socio-cultural norms while taking on professional responsibilities in environmental stewardship.
(Level 7 of QFE: Autonomy and responsibility, Role in context, Self-development)
6. **Practical and Professional Engagement:** Operate professionally, ethically and autonomously in the workplace as individuals or as part of a team, or as the leader of a team.
(Level 7 of QFE: Autonomy and responsibility, Role in context, Self-development)

Concentration in Sustainable Enterprise

This concentration examines how environmental and societal sustainability can be managed and enhanced through creative and profitable business ideas. Students learn how ideas from both business and science can be combined to create novel and workable solutions to environmental issues.

Concentration Learning Outcomes

1. Justify why the transition to a sustainable enterprise economy is of critical importance to the creation of a socially just and environmentally safe operating space for humanity.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
2. Develop a strategy for an existing enterprise to transition to sustainability, or to contribute to a business plan for the development of a completely new sustainable enterprise.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Sustainable Policy

This concentration examines how different knowledge systems utilise scientific findings to inform sustainability policy. Students will acquire the interdisciplinary skills required for careers in the public, private, and voluntary sectors that enable them to develop, analyse, and evaluate sustainability policies, on the basis of their economic, social, and political impacts.

Concentration Learning Outcomes

1. Employ a systems approach to understanding the complex social-ecological dynamics that contribute to the development of an inclusive, resilient, and sustainable society.
(Level 7 of QFE: Knowledge, Skills, Role in context, Self-development)
2. Apply different knowledge systems in the effective design, implementation and evaluation of sustainability policies.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Concentration in Sustainable Environments

This concentration teaches problem solving skills required for developing and implementing innovative solutions to complex problems focused on the health and welfare of environmental and human resources. Integrating the environment, health and risk management into sustainability prepares students for careers focused on protecting people from the risks associated with human impacts on the environment.

Concentration Learning Outcomes

1. Employ qualitative and quantitative methods to measure and monitor environmental problems such as climate change, pollution, loss of biodiversity, hazards, and threats to natural resources.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)
2. Synthesize complex data sets describing environmental problems, evaluate environmentally sustainable alternatives and formulate action plans that integrate science, economic and social perspectives.
(Level 7 of QFE: Knowledge, Skills, Autonomy and responsibility, Role in context, Self-development)

Degree Requirements

Required Credit Hours: 120 hours

General Education	40 CHs
Program Required Courses	31 CHs
Internship and Capstone Project	14 CHs
Concentration Courses	22 CHs
Electives from other concentration	7 CHs
Electives from other programs	6 CHs
General Education	40 CHs
ICB101	Strategic Learning and Growth 4
ICB102	Expressive Clarity 3

IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1
IDS101	Critique and Communication	4
IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IDS102	Applied Creative and Critical Thinking	4
IDS103	Statistical Intuitions & Applications	4
IDS104	Deriving Insights from Evidence	4
IDS105	Systems and Society	4
IDS220	Fundamentals of Innovation and Entrepreneurship	3
IAH244	Ethical Systems, Moral Dilemmas	4

Program Required Courses		31 CHs
ISU201	Earth Systems	3
ISU202	Principles of Sustainability	3
ISU203	Evolution Across Multiple Scales	4
ISU204	Introduction to Environmental Health	3
ISU205	Introduction to Environmental Economy and Policy	3
ISU206	Chemical Structure and Reactivity	4
ISU207	Ecology and Conservation	4
ISU208	Sustainability Policy and Planning	3
ISU209	Physics of Life	4
Internship and Capstone Project courses		14 CHs
IDS391	Capstone Seminar I	3
IDS493	Capstone Project I	4
IDS494	Capstone Project II	4
IDS499	Internship	3

Concentration in Sustainable Enterprise courses		22 CHs
ISU301	The Sustainable Enterprise Economy	4
ISU302	Ecological Economics	4
ISU303	Measuring and Reporting Sustainability	3
ISU400	Social Entrepreneurship	3
ISU401	Organizational Change for Sustainability	4
ISU402	Impact Investment	4

Concentration in Sustainable Policy courses		22 CHs
ISU304	Sustainable Cities and Communities	4
ISU305	Social Justice and Equity	4

ISU306	Circular Economy	3
ISU403	Food and Water Security	3
ISU404	Energy Policies and Net Zero Scenarios	4
ISU405	Nutrition, Health and Sustainability	4

<i>Concentration in Sustainable Environments courses</i>		22 CHs
ISU307	Environmental Hazards and Disaster Risk	3
ISU308	Applied Microbiology	4
ISU309	Environmental Chemistry	4
ISU403	Food and Water Security	3
ISU406	Wastewater and Solid Waste Management	4
ISU407	Monitoring and Modeling Earth's Systems	4

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Sustainability
Concentration in Sustainable Enterprise
(Recommended Sequence)

	Semester 1		Credits	Semester 2		Credits
	Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications
ICB102		Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency	1
IAR110 or IAR111		Arabic Lab 1 (N): Speaking to Engage & Persuade Arabic Lab 1 (NN): Arabic Language & Culture for Beginners	1			
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISU201	Earth Systems	3	ISU204	Introduction to Environmental Health	3
	ISU202	Principles of Sustainability	3	ISU205	Introduction to Environmental Economy and Policy	3
	ISU203	Evolution Across Multiple Scales	4	ISU206	Chemical Structure and Reactivity	4
	Elective	Elective from other programs	3			
		Total	17		Total	14
Year 3	Semester 5			Semester 6		
	ISU207	Ecology and Conservation	4	IDS391	Capstone Seminar I	3
	ISU208	Sustainability Policy and Planning	3	ISU301	The Sustainable Enterprise Economy	4
	ISU209	Physics of Life	4	ISU302	Ecological Economics	4
	Elective	Elective from other programs	3	ISU303	Measuring and Reporting Sustainability	3
		Total	14		Total	14
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IDS499	Internship	3
	ISU400	Social Entrepreneurship	3	IDS494	Capstone Project II	4
	ISU401	Organizational Change for Sustainability	4	Elective	Elective from other concentrations	3
	ISU402	Impact Investment	4	Elective	Elective from other concentrations	4
		Total	15		Total	14

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Sustainability
Concentration in Sustainable Policy
(Recommended Sequence)

	Semester 1			Credits	Semester 2			Credits
	Year 1	ICB101	Strategic Learning and Growth		4	IDS101	Critique and Communications	
ICB102		Expressive Clarity	3	IAR210 or	Arabic Lab 2 (N): Writing to Inform	1		
IAR110 or		Arabic Lab 1 (N): Speaking to Engage & Persuade	1	IAR211	Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency			
IAR111		Arabic Lab 1 (NN): Arabic Language & Culture for Beginners		IDS103	Statistical Intuitions and Applications	4		
ICB103		Applied Algorithmic Thinking	4	IDS105	Systems and Society	4		
IDS102		Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3		
			Total	16			Total	16
Year 2	Semester 3			Semester 4				
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4	14	
	ISU201	Earth Systems	3	ISU204	Introduction to Environmental Health	3		
	ISU202	Principles of Sustainability	3	ISU205	Introduction to Environmental Economy and Policy	3		
	ISU203	Evolution Across Multiple Scales	4	ISU206	Chemical Structure and Reactivity	4		
	Elective	Elective from other programs	3					
		Total	17			Total		14
Year 3	Semester 5			Semester 6				
	ISU207	Ecology and Conservation	4	IDS391	Capstone Seminar I	3	14	
	ISU208	Sustainability Policy and Planning	3	ISU304	Sustainable Cities and Communities	4		
	ISU209	Physics of Life	4	ISU305	Social Justice and Equity	4		
	Elective	Elective from other programs	3	ISU306	Circular Economy	3		
		Total	14			Total		14
Year 4	Semester 7			Semester 8				
	IDS493	Capstone Project I	4	IDS499	Internship	3	14	
	ISU403	Food and Water Security	3	IDS494	Capstone Project II	4		
	ISU404	Energy Policies and Net Zero Scenarios	4	Elective	Elective from other concentrations	3		
	ISU405	Nutrition, Health and Sustainability	4	Elective	Elective from other concentrations	4		
		Total	15			Total		14

Total = 120 Credit Hours

Zayed University
College of Interdisciplinary Studies
Bachelor of Science in Sustainability
Concentration in Sustainable Environments
(Recommended Sequence)

	Semester 1			Semester 2		
			Credits			Credits
Year 1	ICB101	Strategic Learning and Growth	4	IDS101	Critique and Communications	4
	ICB102	Expressive Clarity	3	IAR210 or IAR211	Arabic Lab 2 (N): Writing to Inform	1
	IAR110 or IAR111	Arabic Lab 1 (N): Speaking to Engage & Persuade	1	Arabic Lab 2 (NN): Arabic Language & Culture for Intermediate Proficiency		
		Arabic Lab 1 (NN): Arabic Language & Culture for Beginners			IDS103	Statistical Intuitions and Applications
	ICB103	Applied Algorithmic Thinking	4	IDS105	Systems and Society	4
	IDS102	Applied Creative and Critical Thinking	4	IDS220	Fundamentals of Innovation and Entrepreneurship	3
		Total	16		Total	16
Year 2	Semester 3			Semester 4		
	IDS204	Deriving Insights from Evidence	4	IAH244	Ethical Systems, Moral Dilemmas	4
	ISU201	Earth Systems	3	ISU204	Introduction to Environmental Health	3
	ISU202	Principles of Sustainability	3	ISU205	Introduction to Environmental Economy and Policy	3
	ISU203	Evolution Across Multiple Scales	4	ISU206	Chemical Structure and Reactivity	4
	Elective	Elective from other programs	3			
		Total	17		Total	14
Year 3	Semester 5			Semester 6		
	ISU207	Ecology and Conservation	4	IDS391	Capstone Seminar I	3
	ISU208	Sustainability Policy and Planning	3	ISU307	Environmental Hazards and Disaster Risk	3
	ISU209	Physics of Life	4	ISU308	Applied Microbiology	4
	Elective	Elective from other programs	3	ISU309	Environmental Chemistry	4
		Total	14		Total	14
Year 4	Semester 7			Semester 8		
	IDS493	Capstone Project I	4	IDS499	Internship	3
	ISU403	Food and Water Security	3	IDS494	Capstone Project II	4
	ISU406	Wastewater and Solid Waste Management	4	Elective	Elective from other concentrations	3
	ISU407	Monitoring and Modeling Earth's Systems	4	Elective	Elective from other concentrations	4
		Total	15		Total	14

Total = 120 Credit Hours