

YEAR 3 LPUS – KEY TOPICS FOR EACH LEARNING UNIT

Note:

1. You can select learning units offered by other schools and CILS (Centre for Innovation & Life Skills)
2. You will **NOT** be able to select learning units offered from your school.
3. Information in the following list may be subject to changes.

No.	School / Learning unit Code / Title	Learning unit Description	Key Topics Covered
1	School of Business Management BMX301 Be Financially Intelligent!	<p>Money does not buy happiness, but it can definitely make life more comfortable.</p> <p>Learn how to utilise basic money management techniques to take control of your money matters. Learn to recognise your spending habits and set financial goals as we guide you in creating a personal financial budget. Assess your investment risk profile and build up your knowledge in financial products to achieve your dream lifestyle. It is never too early to start managing your wealth!</p>	<p>Basic Money Management</p> <ul style="list-style-type: none"> • Personal Money Management • Banking & Cash • Tracking Expenses • Credit & Loans <p>Increasing Wealth</p> <ul style="list-style-type: none"> • Stock Market Basics • Bonds • Unit Trusts • Investment scams & how to spot them
2	School of Business Management BMX302 The Entrepreneur in Me	<p>Business ideas are everywhere and learning to seize the opportunity is the key to entrepreneurship.</p> <p>Thinking of pursuing an entrepreneurial dream?</p> <p>Want to learn how to pitch your ideas?</p>	<ul style="list-style-type: none"> • Introduction to Entrepreneurship • Ideation & Validation • Lean Business Model Canvases • Market Survey & Study • Entrepreneur Sharing Session

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		Using a simple idea-mapping tool, students will learn to ideate and validate existing ideas – and recalibrate them into business realities. Students will also gain learning experiences from other entrepreneurs whom have “walked the road”.	
3	School of Business Management BMX303 Productivity In Business	Did you know that Singaporeans clocked 2,371.2 hours working in 2016, the longest hours in the world, according to the statistics from the Ministry of Manpower? However, we had low levels of GDP (Gross Domestic Product) per hour worked, which is an indicator of the country’s productivity. This learning unit will equip you with the concept of productivity in both business and personal settings, and help you gain insights on to how you can contribute to productivity in work and life.	<ul style="list-style-type: none"> • Introduction to Productivity • Productivity Concept: Definition and its Measurement • Productivity Tools & Techniques • Personal Productivity
4	School of Business Management BMX304 Becoming A Successful Manager	Becoming a first-time manager can be nerve-wracking and is probably one of the most challenging transitions one can make. In this learning unit, you will learn about key management functions of planning, organising, leading and controlling. You will explore the different leadership approaches and uncover your preferred leadership style while gaining a better understanding of what motivates people. Through case studies and various activities, you will also discover the different ways of resolving a conflict.	<ul style="list-style-type: none"> • Introduction to Management • The Nature and Meaning of Management • The Foundations of Planning • Leadership & Motivation • Groups Dynamics & Conflict Management

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5	School of Business Management BMX305 Doing Business Globally	<p>What makes Uber feared in some countries but valued in others? Starbucks will be opening its first store in Uruguay in early 2018, but why Uruguay? Where should Singapore shoe brand Charles & Keith venture into - Japan or Italy?</p> <p>Discover the business nuances in different countries and find out why Singapore is attractive to international brands. You will learn the basics of analysing a country (the way all businesses do) before entering an overseas market.</p>	<ul style="list-style-type: none"> • Differences among countries • Singapore's country external factors • Political/ legal factors • Economic factors • Social-Cultural factors • Technological factors
6	School of Business Management BMX306 Understanding Contracts and the Law	<p>Without a proper understanding of the law, a business may find itself facing claims and lawsuits by third parties and incur various penalties. Through this learning unit, you will learn how your business can protect its legal rights through the law of contracts, intellectual property and business organisations. You will also discover how the Singapore legal system works and what you can do in the event your business encounters a legal dispute with a customer or supplier.</p>	<ul style="list-style-type: none"> • Introduction to the Singapore Legal System • Resolving Legal Disputes in Singapore • Contract Law • Introduction to Sale of Goods • Doing business through an agent • Employment Contracts • Introduction to Intellectual Property

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7	School of Applied Science CLX301 Wonders of Life	<p>Have you ever wondered why you are unique?</p> <p>In this learning unit, you will explore life at the microscopic level by studying the components in the cells, and how they interact with each other. You will learn to create another duplicate of yourself too! Join us now in exploring the wonders of life.</p>	<ul style="list-style-type: none"> • Introduction to Nucleic Acids and DNA • Introduction to Recombinant DNA technology • Cloning • Genome based medicine • Genetically modified foods
8	School of Applied Science CLX302 Unravel the Mystery of Big Pharma	<p>Singapore's pharmaceutical manufacturing sector is one of the major contributors to our economy. Globally, the pharmaceutical is the most profitable industry. Peek into the world of pharmaceutical giants and unravel the mystery of their outstanding success.</p>	<ul style="list-style-type: none"> • Introduction • Drug development • Drug manufacturing • Competition • Challenges and opportunities
9	School of Applied Science CLX303 Food Culture	<p>Curious about how cultures & lifestyles influence our food choices?</p> <p>Eager to know more about the different kinds of food from the world over?</p> <p>Sign up for this learning unit and be fascinated by an array of food found in Asian and Western cuisines and countries.</p>	<ul style="list-style-type: none"> • Introduction to Food Culture • Food and Religion Influence • Asian Food Culture • Western Food Culture

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10	School of Design & Media DXX301 Architecture: Appreciating Desirable Homes	<p>What do architects look for when designing houses? If you are interested in the practicalities of a desirable home, then this course is for you!</p> <p>Through this learning unit, you will learn how homes have evolved over time across differing cultures. You will also learn how to read drawings, appreciate spatial qualities through architectural case studies and even give a go at designing your own place.</p>	<ul style="list-style-type: none"> • History of Architecture & the impact of Culture • Spatial qualities & practicalities of a Desirable Home • Reading Building Drawings • Architectural design case studies
11	School of Design & Media DXX302 Elements of Interior Design	<p>When you browse through interior design magazines, are you fascinated by how the look of a room comes together? Are you interested in designing your personal space? If you are keen, then this course is for you!</p> <p>In this learning unit, you will learn how to sketch, create your own layout plans, and use simple 3D illustrations to visualise your ideas. You will also learn how to choose the right colours, materials and finishes. Have a taste of what being an interior designer is like.</p>	<ul style="list-style-type: none"> • Sketching & creating layout plans • 3D illustration to visualise ideas • Colours, materials, and finishes for interior design • Designing your personal space
12	School of Design & Media DXX303 Evolution of Games	<p>The history of games is long and rich. Students of our current generation may not know that the video games they play have elements common with games played in ancient civilizations. The exposure to a variety of games, including traditional childhood games, will broaden your knowledge and appreciation of activities related to play.</p>	<ul style="list-style-type: none"> • Introduction to Evolution of Game • Evolution of Ancient Games • Evolution of Analog Games • Evolution of Digital Games

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13	School of Design & Media DXX304 Green Screen Visual Effects	Interested in finding out how green screens are used in creating seemingly impossible clips in movies? Come learn how magical images and videos are made!	<ul style="list-style-type: none"> • Introduction to Visual Effects – History • Nuke- Navigation and Interface • Green Screen Studio – Shoot images • Chroma Keying • Colour Correction
14	School of Design & Media DXX305 Visual Arts Appreciation	What do you know about art? Have you ever encountered a painting or a sculpture that baffled you? This learning unit helps you understand and appreciate artwork and its movements, forms and concepts. Find out why artists create masterpieces, how they did it, and unlock the hidden meanings behind their works.	<ul style="list-style-type: none"> • Introduction to Art Language • The Nature of Art • Ancient Art • Asian Art • Western Art

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15	School of Engineering EGX301 Applying Science in Daily Life	<p>Pretty much everything that happens in our daily lives is affected by science. This includes the effects of heat and cold, chemical reactions and the flow of air and water. Get a better understanding of how air-conditioning has given us comfortable lives in our home environments. In the outdoors, appreciate the importance of keeping the body cool and protected from sunburn.</p> <p>Understand how science affects the safety of the food that we eat, the transportation that we take and even the effects on our health from the air that we breathe.</p>	<ul style="list-style-type: none"> • Heating and cooling • Corrosion effects • Fluid Mechanics
16	School of Engineering EGX302 Appreciating Wireless Technology	<p>One of mankind's greatest inventions? Wireless technology. In the past few decades, wireless technologies have evolved tremendously to support and deliver high speed, rich content to our mobile devices and become part of our lifestyle. What else you can do with your mobile devices? What holds for wireless technology in the future?</p>	<ul style="list-style-type: none"> • Overview of Wireless Technologies • Using IoT to improve productivity • Satellite communications • 5G Cellular technology & its impact on lifestyle • Wireless for Fintec
17	School of Engineering EGX303 Be a DIYer at Home	<p>The Do-it-yourself (DIY) movement has many fans – not only is there a sense of empowerment and achievement, there is likely cost savings too.</p> <p>Join us in this hands-on class and you will gain the confidence to embark on home improvement projects with the latest innovations in home automation and networking.</p>	<ul style="list-style-type: none"> • Introduction/Overview of DIY Electrical Home improvements • Fundamental Safety issues & Essential Electrical works Toolkit • Understanding the electrical wiring in the home • Common Electrical failures & Replacements
18	School of Engineering EGX304 Improving Lives with Medical Technology	<p>Over the last decades, there has been significant progress in medical research, disease treatment and the general improvement in patients' quality of life. Understand the amazing things going on worldwide in medicine and</p>	<ul style="list-style-type: none"> • History of medical technologies • Different types of medical technologies • Benefits of medical technologies

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		healthcare, from medical implants to 3D printed body parts that have significantly improved and extended life expectancy.	<ul style="list-style-type: none"> • Design & development process of medical technologies • Innovation and future of medical technologies
19	School of Engineering EGX305 Appreciation of Smart Technology in Daily Life	Singapore is constantly being referred to as a smart nation, but what exactly does that mean? In this learning unit, you will learn about the key technology enablers and business opportunities involved in employing technology on a large scale, as well as the social benefits created by our smart nation.	<ul style="list-style-type: none"> • Intro to smart cities • Why we need smart cities • Internet of Things • Case studies---developments in various countries like Japan, Singapore, Indonesia, India, China, South Korea, Spain and the Netherlands
20	School of Engineering EGX306 The Modern Wearables	Modern wearables are increasingly seen everywhere, from our eyewear to our smart watches and other gadgets that can be integrated into our clothes. Explore how wearable technology has developed and where it is going in the future.	<ul style="list-style-type: none"> • Types of modern wearables: smart watches, smart glasses, smart clothing. • Applications of smart wearables in healthcare, entertainment, fashion and security industries. • Enabling Technologies for wearables. • Human factors of wearable technologies.

Note: For all SEG learning units mentioned above, no background knowledge of Physics is required.

No.	School / Learning unit Code / Title	Learning unit Description	Key Topics Covered
21	School of Health & Social Sciences HSX302 Healthy and Resilient Families	An individual's emotional health is intertwined with the health of our relationships – especially the health of our relationships with our families. Learn to forge connections that will give us strength to manage the challenges in life. Discover the strategies to handle communication breakdowns and difficult relationship patterns. When we nourish family relationships, we nourish ourselves too.	<ul style="list-style-type: none"> • Introduction to the Family • Family Relationship Patterns • Family Roles • Personality Differences • Responses to Conflicts • Resolution & Reconciliation
22	School of Health & Social Sciences HSX303 Appreciating the Sociology of Health & Illness	Do you know that your gender, race, ethnicity, socio-economic status and other social characteristics can determine how long you live, and what types of diseases and illnesses you are likely to suffer from? Come and learn how social characteristics and processes can have significant impact on your health status and life expectancy.	<ul style="list-style-type: none"> • Introduction to the Sociology of Health & Illness • Social dimension of health & illness • Social causes of common health-related problems in Singapore
23	School of Health & Social Sciences HSX304 Psychological Health and Wellbeing	A generalised learning unit covering psychological disorders that are commonly encountered and diagnosed, this module attempts to elucidate the concepts of psychological health and wellbeing to learners from various disciplines. Equipped with this knowledge, you will gain sufficient knowledge and insight into selected disorders such that you will be able to identify manifestations of these disorders and capitalise on available avenues of help and support. The role of sociocultural and environmental factors and their impact on psychological health and wellbeing will also be explored.	<ul style="list-style-type: none"> • Introduction to psychological health and wellbeing • Core domains of psychosocial wellbeing • Anxiety, mood disorders and addictions • Psychotic disorders • Community resources

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24	<i>School of Health & Social Sciences</i> HSX305 <i>Psychology of Self-Motivation and Change</i>	Are you overwhelmed by schoolwork piling up? Or perhaps, you feel the tremendous stress of writing that first sentence for your report? Procrastination is a major problem for many learners. Get equipped with the right skills and knowledge to improve your self-motivation.	<ul style="list-style-type: none"> • Commitment to plan for personal change • Tools to tackle procrastination to change • Methods and techniques in establishing growth mindset • Overcoming challenges in the change process • Self-management strategies for effective & efficient change • Effectiveness of the change process

No.	School / Learning unit Code / Title	Learning unit Description	Key Topics Covered
25	School of Information Technology ITX301 Business Analytics Primer	<p>Wondering what to do with the data collected from your research projects or survey?</p> <p>In this learning unit, you will learn the basics of business analytics and concepts of the data management process. Find meaning the data you collect and learn how to unlock its secrets.</p>	<ul style="list-style-type: none"> • Data management process using the Cross Industry Standard Process for Data Mining (Crisp-DM) Model • Characteristics of big data • Types of analytical techniques in the data mining process • Analytical techniques for various business situations / industries
26	School of Information Technology ITX302 Mobile Application Development Made Easy	<p>Do you have a great idea for a mobile app? Maybe you're wishing that you had the skills to develop it?</p> <p>This learning unit will teach you how to develop working mobile apps that you can use to test and refine your ideas! All this without typing codes!</p>	<ul style="list-style-type: none"> • Basic programming concept • Drawing, Animation, and Game apps • Texting and Location Sensing • Quizzes and other Informational Apps • Communicating with the Web
27	School of Information Technology ITX303 Secured Digital Home	<p>With cyber theft and hackers hogging the headlines, find peace of mind by learning the fundamentals of setting up a secured home network system. Keep your loved ones safe through your skill, and secure your digital home.</p>	<ul style="list-style-type: none"> • How does wireless transmission work? • Networking Basics • Wireless Security • Basics of IP Camera
28	School of Information Technology ITX304 The Art & Science of Project Management	<p>Want to know how to manage your projects effectively?</p> <p>In this learning unit, you will learn to estimate project scope and effort, use the tools for management of projects and to develop leadership to deliver successful project.</p>	<ul style="list-style-type: none"> • Identify project scope • Estimate effort required for project • Project schedule planning • Project monitoring • Project Management Tips

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29	School of Information Technology ITX305 Insights Into Ethical Hacking	<p>“To beat a hacker, you need to think like a hacker”.</p> <p>Find out how ethical hacking can help to protect your IT systems from being compromised.</p> <p>In this learning unit, you will learn the rules and tools that are applicable to ethical hacking.</p>	<ul style="list-style-type: none"> • Reconnaissance & Network Security • Ethics & Security Testing • Web Security • Cryptography & Steganography
30	School of Information Technology ITX306 Coding for Beginners**	<p>Steve Jobs once said, “<i>Everybody in this country should learn how to program a computer because it teaches you how to think.</i>” Learning to code also makes you more productive, efficient and effective.</p> <p>In this course, you will learn how to construct a program from a series of simple instructions in Python. There are no pre-requisites and anyone with moderate computer experience should be able to find this course fun and useful.</p>	<ul style="list-style-type: none"> • Computational Thinking Concepts • Basic Programming Concepts • Building A Computer Program

****Not offered to SEG learners**

No.	School / Learning unit Code / Title	Learning unit Description	Key Topics Covered
31	Centre for Innovation & Life Skills FGX301 Introduction to Political Science	Ever wonder how countries are run and governed? This learning unit is designed to give you an introduction to Political Science. Learn about The State, Systems of Government as well as Political Activity and Behaviour. Through the learning unit, you will be able to understand socio-political contexts and better appreciate the environments you operate in. You will learn through lectures, group discussions and classroom contributions.	<ul style="list-style-type: none"> • What is Political Science • Political Ideology • State and Nationhood • Political Culture
32	Centre for Innovation & Life Skills FGX302 Current Issues in Perspective	Want to know what critical skills you need in the 4th Industrial Revolution? How does disruptive technology and economy impact our lives? Learn about these and other current issues to prepare yourself for life in the 21 st Century.	<ul style="list-style-type: none"> • 4th Industrial Revolution & Disruptive Technology • Employment and Jobs in the New Economy • Environment and Sustainability • Counterterrorism • Aging and Racial Harmony
33	Centre for Innovation & Life Skills FGX303 Effective Organizational Communication	Communication in an organization is much more than just transmitting information. Through theory, case studies and role-play, we examine how intertwined an organisation's communication and culture are. Join us and get a better grasp of the words and dynamics in the workplace.	<ul style="list-style-type: none"> • Is Organization a Machine • How Organizations See People • Organizational Communication Flow • Common Barriers, Distortions and Solutions to Communication Flow
34	Centre for Innovation & Life Skills FGX308 Learn to Lead	Do you sometimes find it challenging to lead teams, but you know that it is crucial for success in life? Gain confidence and skills through activities designed to hone your leadership skills!	<ul style="list-style-type: none"> • Personality Types • Build Teams • Positive Team Culture • Effective Communication

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35	Centre for Innovation & Life Skills FGX309 Lessons from History – 20 th Century China	<p>Live the present and look to the future, but do not forget the paths taken to get here.</p> <p>Take a look at 20th Century China and discover how human wants and desires had far reaching consequences. Open your minds to learn from the past, so that to better appreciate our world today.</p>	<ul style="list-style-type: none"> • The Boxer Rebellion • 1911 Revolution • World War II • People’s Republic of China • Great Leap Forward
36	Centre for Innovation & Life Skills FGX306 Introduction to Japanese Language 2 To do this learning unit, you need to have completed & passed FGX206 (Introduction to Japanese Language 1)	<p>こんにちは (konnichiwa). You can presently use your Japanese language skills in some simple conversations. In this learning unit, upgrade your skills and learn to converse about activities with reference to time and space. This will be especially useful if you wish to travel in Japan.</p>	<ul style="list-style-type: none"> • Shopping • Time & Reference • Getting Around
37	Centre for Innovation & Life Skills FGX307 Introduction to Korean Language 2 To do this learning unit, you need to have completed & passed FGX207 (Introduction to Korean Language 1)	<p>안녕하세요! You are having fun using your basic Korean language skills in some simple conversations, but now, join us in this learning unit and learn how to talk about daily life, describe people and things within the cultural context of Korean society.</p> <p>곧 만나요!</p>	<ul style="list-style-type: none"> • Daily Life • People & Things • Meeting and Appointments

38	<p>Centre for Innovation & Life Skills FGX310 Discovering French Culture & Society</p>	<p>You may have been using French words for years without knowing it: café, à la carte, déjà vu, montage, coup d'état, entrepreneur... Indeed, France is a major nation whose sphere of influence extends beyond Europe.</p> <p>This learning unit will bring you on a journey into the rich and fascinating world of French culture and society!</p>	<ul style="list-style-type: none"> • France • History • Society • Yearly Events • Industry • Etiquette
39	<p>Centre for Innovation & Life Skills FGX312 Discovering Japanese Culture & Society</p>	<p>Are you keen to know more about Japan? For example, do you want to know more about Japanese etiquette, the manner of entering the Japanese hot springs (onsen), exchanging name cards with Japanese?</p> <p>This learning unit will enable you to gain interesting insights and an appreciation of Japanese behaviour and customs. This knowledge will definitely come in useful when you next visit Japan!</p>	<ul style="list-style-type: none"> • Introduction to the Country & the People • Festivals and Events • Family and Work • Etiquettes
40	<p>Centre for Innovation & Life Skills FGX313 Discovering Korean Culture & Society</p>	<p>What comes to your mind when you think of Korea? Pulsating culture, rich history and futuristic modernity? Korea is now one of the strongest cultural influences in the world. Through this class, you will find the hidden gems of Korea.</p>	<ul style="list-style-type: none"> • Country & People <ul style="list-style-type: none"> ○ History of Korea & Hangeul ○ 5 Famous Koreans • Cultural Festival <ul style="list-style-type: none"> ○ Seasonal Events ○ Holidays • Korean Food <ul style="list-style-type: none"> ○ World famous Korean food • Etiquette at the dining table

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41	Centre for Innovation & Life Skills FGX314 Discovering Chinese Culture & Society	<p>What is typical Chinese in your opinion? The festivals, the food, the paintings and calligraphy? Yes! And it's more than that.</p> <p>This learning unit will take you on a journey to discover the rich history and culture, paired with insight into a vibrant modern- day society of China.</p>	<ul style="list-style-type: none"> • The becoming of China <ul style="list-style-type: none"> ○ Geography and demography ○ Historical development ○ The Chinese worldviews • Major symbolic forms of culture <ul style="list-style-type: none"> ○ Language and script ○ Eating habits • Festive celebrations